Form (2)

Sr, No. 424-a
Date 21.10.2014

THE REPUBLIC OF THE UNION OF MYANMAR

The Myanmar Investment Commission

PERMIT

Permit No. 807/2014 Date 21st October 2014

This Permit is issued by the Myanmar Investment Commission according to the section 13, sub-section (b) of the Republic of the Union of Myanmar Foreign Investment Law-

(a) Name of Investor/Promoter MR. TAKASHI MISHIMA

(b) Citizenship JAPANESE

(c) Address FLAT 10, 15F, SHATIN GALLERIA, 18-24 SHAN MEI STREET, FOTAN, SHATIN, N. T. HONGKONG

(d) Name and Address of Principle Organization DENSO INDUSTRY ASIA COMPANY LIMITED, FLAT 10, 15F, SHATIN GALLERIA, 18-24 SHAN MEI STREET, FOTAN, SHATIN, N. T. HONGKONG

(e) Place of incorporation HONG KONG

(f) Type of Investment Business MANUFACTURING AND MARKETING OF ELECTRONIC WIRE HARNESS

(g) Place(s) at which investment is permitted PLOT NO. 240, MYAY TAING BLOCK NO. 25, DEPEYIN WUN HTAUK U MYAE STREET, SHWE LIN BAN INDUSTRIAL ZONE, HLAING THAR YAR TOWNSHIP, YANGON REGION

(h) Amount of Foreign Capital US$ 0.80 MILLION

(i) Period for Foreign Capital Brought in WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF MIC PERMIT

(j) Total amount of capital (Kyat) EQUIVALENT IN KYAT OF US$ 0.80 MILLION

(k) Construction period 2 YEARS

(l) Validity of investment permit 30 YEARS

(m) Form of investment WHOLLY FOREIGN OWNED INVESTMENT

(n) Name of Company incorporated in Myanmar DENSO INDUSTRY YANGON LIMITED

Chairman

The Myanmar Investment Commission

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်
ခွင့်ပြုမိန့်

ခွင့်ပြုမိန့်အမှတ် ၈၀၇/၂၀၁၄ ၂၀၁၄ ခုနှစ် အောက်တိုဘာလ ၂၁ ရက်

ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေပုဒ်မ-၁၃၊ ပုဒ်မခွဲ(ခ) အရ ဤခွင့်ပြုမိန့်ကို မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်က ထုတ်ပေးလိုက်သည် -

(က) ရင်းနှီးမြှုပ်နှံသူ/ကမကထပြုသူ၏အမည် MR. TAKASHI MISHIMA

(ခ) နိုင်ငံသား JAPANESE

(ဂ) နေရပ်လိပ်စာ FLAT 10, 15F, SHATIN GALLERIA, 18-24 SHAN MEI STREET, FOTAN, SHATIN, N. T. HONGKONG

(ဃ) ပင်မအဖွဲ့အစည်းအမည်နှင့်လိပ်စာ DENSO INDUSTRY ASIA COMPANY LIMITED, FLAT 10, 15F, SHATIN GALLERIA, 18-24 SHAN MEI STREET, FOTAN, SHATIN, N. T. HONGKONG

(င) ဖွဲ့စည်းရာအရပ် HONG KONG

(စ) ရင်းနှီးမြှုပ်နှံသည့်လုပ်ငန်းအမျိုးအစား လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း

(ဆ) ရင်းနှီးမြှုပ်နှံသည့်အရပ်ဒေသ(များ) မြေကွက်အမှတ် ၂၄၀၊ မြေတိုင်းရပ်ကွက် အမှတ် ၂၅၊ ဒီပဲယင်းဝန်ထောက် ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး

(ဇ) နိုင်ငံခြားမတည်ငွေရင်း ပမာဏ အမေရိကန်ဒေါ်လာ ၀.၈၀ သန်း

(ဈ) နိုင်ငံခြားမတည်ငွေရင်းယူဆောင်လာရမည့်ကာလ ခွင့်ပြုမိန့်ရရှိသည့်နေ့မှ (၁) နှစ် အတွင်း

(ည) စုစုပေါင်း မတည်ငွေရင်းပမာဏ(ကျပ်) အမေရိကန်ဒေါ်လာ ၀.၈၀ သန်း နှင့် ညီမျှသော မြန်မာကျပ်ငွေ

(ဋ) တည်ဆောက်မှုကာလ ၂ နှစ်

(ဌ) ရင်းနှီးမြှုပ်နှံခွင့်ပြုသည့် သက်တမ်း ၃၀ နှစ်

(ဍ) ရင်းနှီးမြှုပ်နှံမှုပုံစံ ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု

(ဎ) မြန်မာနိုင်ငံတွင် ဖွဲ့စည်းမည့် ကုမ္ပဏီအမည်
DENSO INDUSTRY YANGON LIMITED

ဥက္ကဋ္ဌ
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

THE REPUBLIC OF THE UNION OF MYANMAR
MYANMAR INVESTMENT COMMISSION
No.1, Thitsar Road, Yankin Township, Yangon

Our ref : Ya Ka-3/FI-1037/2014(424-a)
Date : 21st October 2014

Tel: 01- 658128
Fax: 01-658136

Subject: **Decision of the Myanmar Investment Commission on the Proposal for "Manufacturing and Marketing of Electronic Wire Harness" under the name of "Denso Industry Yangon Limited".**

Reference: Denso Industry Yangon Limited, Letter dated (16-5-2014)

1. The Myanmar Investment Commission, at its meeting (22/2014) held on (19-9-2014) had approved the proposal for investment in "Manufacturing and Marketing of Electronic Wire Harness" under the name of "Denso Industry Yangon Limited" submitted by Denso Industry Asia Co., Ltd. (99.9995 %) from Hong Kong and Denso Industry Co., Ltd. (0.0005 %) from Japan as wholly foreign owned investment.

2. Hence, the "Permit" is herewith issued in accordance with Chapter VII, section 13(b) of Foreign Investment Law and Chapter VIII, Rule 49 of the Foreign Investment Rules relating to Foreign Investment Law. Terms and conditions to the "Permit" are stated in the following paragraphs.

3. The permitted duration of the project shall be 30 (thirty) years commencing from the date of the issuance of MIC permit. The term of the Lease Agreement for land and building between Daw Kyin Than and Denso Industry Yangon Limited shall be 4 (four) years from the date of signing of this Agreement and extendable for a further term at the request of the lessee mutually agreed by both parties. At the end of the Lease Agreement for land and building, Denso Industry Yangon Limited shall transfer the leased land and building to the lessor without any consideration and in good condition.

4. The annual rent for the land and building shall be Kyats 45,600,000 (Kyats forty-five million and six hundred thousand only) measuring 1,189.77 square metres (0.294 acres).

5. In issuing this "Permit," the Commission has granted the followings exemptions and reliefs as per Chapter XII, section 27(a), (h), (i) and (k) of Foreign Investment Law. Other exemptions and reliefs under section 27 shall have to be applied upon the actual performance of the project;

(a) As per section 27(a), income tax exemption for a period of five consecutive years including the year of commencement on commercial production;

(b) As per section 27(h), exemption or relief from custom duty or other internal taxes or both on machinery, equipment, instruments, machinery components, spare parts and materials used in the business, which are imported as they are actually required for use during the period of construction of business;

(c) As per section 27(i), exemption or relief from customs duty or other internal taxes or both on raw materials imported for production for the first three-year after the completion of construction of business;

(d) As per section 27(k), exemption or relief from commercial tax on the goods produced for export.

6. Denso Industry Yangon Limited shall have to sign the Lease Agreement for land and building with Daw Kyin Than. After signing the Agreement, (5) copies shall have to be forwarded to the Commission.

7. Denso Industry Yangon Limited in consultation with the Department of Company Registration, Directorate of Investment and Company Administration shall have to be registered. After registration, (5) copies each of Certificate of Incorporation and Memorandum of Association and Articles of Association shall have to be forwarded to the Commission.

8. Denso Industry Yangon Limited shall use its best efforts for timely realization of works stated in the proposal. If none of such works has been commenced within one year from the date of issue of this "Permit", it shall become null and void.

9. Denso Industry Yangon Limited has to abide by Chapter X, Rule 58 and 59 of the Foreign Investment Rules for construction period.

10. As per Chapter X, Rule 61 of the Foreign Investment Rules, extension of construction period shall not be allowed more than twice except it is due to unavoidable events such as natural disasters, instabilities, riots, strikes, a State of emergency, insurgency and outbreak of wars.

11. As per Chapter X, Rule 63 of the Foreign Investment Rules, if the investor cannot construct completely in time during the construction period or extension period, the Commission will have to withdraw the permit issued to the investor and there is no refund for the expenses of the project.

12. The commercial date of operation shall be reported to the Commission.

13. Denso Industry Yangon Limited shall endeavour to meet the targets for production and export stated in the proposal as the minimum target.

14. The Commission approves periodical appointments of foreign experts and technicians from abroad as per proposal and also in accordance with Chapter XI, section 24 and section 25 of Foreign Investment Law and Denso Industry Yangon Limited has to follow the existing Labour Laws for the recruitment of staff and labour in accordance with Chapter XIII, Rule 84 of the Foreign Investment Rules.

15. In order to evaluate foreign capital and for the purpose of its registration in accordance with the provisions under Chapter XV, section 37 of Foreign Investment Law, it is compulsory to report as early as possible in the following manner:-

(a) the amount of foreign currency brought into Myanmar, attached with the necessary documents issued by the respective bank where the account is opened and defined under Chapter XVI, Rule 134 and 135 of the Foreign Investment Rules;

(b) the detailed lists of the type and value of foreign capital defined under Chapter I, section 2(i) of Foreign Investment Law, other than foreign currency.

16. Whenever Denso Industry Yangon Limited brings in foreign capital defined under Chapter I, section 2(i) of Foreign Investment Law, other than foreign currency in the manner stated in paragraph 15(b) mentioned above, the Inspection Certificate endorsed and issued by an internationally recognized Inspection Firm with regard to quantity, quality and price of imported materials shall have to be attached.

17. Denso Industry Yangon Limited has the right to make account transfer and expend the foreign currency from his bank account in accordance with Chapter XVI, Rule 136 of the Foreign Investment Rules and for account transfer of local currency generated from the business to the local currency account opened at the bank by a citizen or a citizen-owned business in the Union and right to transfer back the equivalent amount of foreign currency from the foreign currency bank account of a citizen or citizen-owned business by submitting the sufficient document in accordance with Chapter XVII, Rule 145 of the Foreign Investment Rules.

18. Denso Industry Yangon Limited shall report to the Commission for any alteration in the physical and financial plan of the project. Cost over-run, over and above the investment amount pledged in both local and foreign currency shall have to be reported as early as possible.

19. Denso Industry Yangon Limited shall be responsible for the preservation of the environment at and around the area of the project site. In addition to this, it shall carry out as per instructions made by Ministry of Environmental Conservation and Forestry in which to conduct Initial Environmental Examination (IEE) Process and an Environmental Management Plan (EMP) which describe the measure to be taken for preventing, mitigation and monitoring significant environmental impacts resulting from the implementation and operation of proposed project or business or activity has to be prepared and submitted and to perform activities in accordance with this EMP and to abide by the environmental policy, Environmental Conservation Law and other environmental related rules and procedures. Denso Industry Yangon Limited has to undertake the appropriate and effective management and mitigation measures to alleviate the environmental and social concerns which have identified in the impact assessment section of the Environmental Management Plan and also on a report of an EIA study prepared by Resource & Environmental Myanmar Ltd.

20. Denso Industry Yangon Limited shall contribute 1 % of the annual net profit for Corporate Social Responsibility (CSR) as stated in the proposal.

21. After getting permit from Myanmar Investment Commission, Denso Industry Yangon Limited shall have to be registered at the Directorate of Industrial Supervision and Inspection.

22. Denso Industry Yangon Limited shall have to abide by the Fire Services Department's rules, regulations, directives and instructions. Moreover, fire prevention measures shall have to undertake such as water storage tank, fire extinguishers and provide training to use the fire fighting equipments and also to appoint fire safety officer.

23. Payment of principal and interest of the loan (if any) as well as payment for import of raw materials and spare parts etc., shall only be made from export earning of Denso Industry Yangon Limited.

24. Denso Industry Yangon Limited in consultation with Myanma Insurance, shall effect such types of insurance defined under Chapter XII, Rule 79 and 80 of the Foreign Investment Rules.

(Zay Yar Aung)
Chairman

Denso Industry Yangon Limited

cc:
1. Office of the Government of the Republic of the Union of Myanmar
2. Ministry of Home Affairs
3. Ministry of Foreign Affairs
4. Ministry of Environmental Conservation and Forestry
5. Ministry of Electric Power
6. Ministry of Immigration and Population
7. Ministry of Industry
8. Ministry of Commerce
9. Ministry of Finance
10. Ministry of National Planning and Economic Development
11. Ministry of Labour, Employment and Social Security
12. Office of the Yangon Region Government
13. Director General, Fire Services Department
14. Director General, Department of Environmental Conservation
15. Director General, Immigration and National Registration Department

16. Director General, Directorate of Industrial Supervision and Inspection
17. Director General, Directorate of Trade
18. Director General, Customs Department
19. Director General, Internal Revenue Department
20. Director General, Directorate of Investment and Company Administration
21. Director General, Directorate of Labour
22. Managing Director, Myanma Electric Power Enterprise
23. Managing Director, Myanma Foreign Trade Bank
24. Managing Director, Myanma Investment and Commercial Bank
25. Managing Director, Myanma Insurance
26. Chairman, Republic of the Union of Myanmar Federation of Chambers of Commerce and Industry(UMFCCI)

Director General
Myanmar Investment Commission
Building No. 1, Thit Sar Road, Yankin Township, Yangon
The Republic of the Union of Myanmar

Reference: : Decision of MIC meeting held on 19 SEPTEMBER 2014

Subject: :Application for MIC permit for carrying out Manufacturing and Marketing of Electronic Wire Harness business upon establishing Denso Industry Yangon Limited

Dear Sir,

Regarding the above subject matter and reference, we, Denso Industry Yangon Limited, would like to have the MIC permit with the business type "Manufacturing and Marketing of electronic wire harness".

The "electronic wire harness" is not an electronic part or electric cables. The electronic wire harness is an advanced processing component of the electronic part. The electronic wire harness is an assembly of cables or wires and connectors that connect to other connectors, which transmit signals or electrical power.

As the term "electronic wire harness" is commonly used in the electric devices and handsets, the electronic wire harness is a well-recognized business term in many countries. Accordingly, we would like to kindly ask your approval for us to use the term "electronic wire harness" and obtain the MIC Permit for "manufacturing and marketing of the electronic wire harness".

We look forward to receiving a positive reply from you.

Thank for your time and consideration.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

Director General
Myanmar Investment Commission
Building No. 1, Thit Sar Road, Yankin Township, Yangon
The Republic of the Union of Myanmar

Reference: : Decision of MIC meeting held on 19 SEPTEMBER 2014

Subject: :Proposal for 100% foreign investment for carrying out Manufacturing and Marketing of Electronic Wire Harness business upon establishing Denso Industry Yangon Limited

Dear Sir,

Regarding the above subject matter and reference, we, Denso Industry Yangon Limited, would like to inform you that we have complied decision of MIC meeting held on 19 Sep 2014, and submit the following documents

1) Salary statement showing US$ 90 per month for lowermost worker and related amended sheets namely selling and administrative expenses, profit & loss statement and cash flow statement and IRR. (Annex I-1, I-2, M-1,N, P)
2) Our commitment to Corporate Social Responsibility showing providing of lightening to neighboring community and
3) Application Letter for MIC permit with manufacturing and marketing of electronic wire harness.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

DENSO INDUSTRY YANGON LIMITED

Annex I-1 List of Local and Foreign Personnel And Their Salaries (per year)

Expressed in US$

Division	Position	Description	5 months in Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Administration Office	Director	Foreign Director	25,000	60,000	60,000	120,000	120,000	120,000	120,000	180,000	180,000	180,000	1,165,000
	Manager	Senior Mgr	5,000	12,000	12,000	14,400	14,400	15,600	16,800	18,000	18,000	18,000	144,200
		Accounting Mgr	1,500	7,200	7,200	9,600	9,600	10,800	12,000	12,000	12,000	14,400	96,300
	Superviso	General affairs Dept	1,500	3,600	7,200	8,400	8,400	12,600	16,800	21,000	21,000	24,000	124,500
		Materials/Customs De	1,500	7,200	10,800	12,600	12,600	16,800	19,200	27,000	27,000	36,000	170,700
	Staff	Direct Dept Assistant	0	12,000	31,200	45,000	45,000	50,400	72,000	82,800	105,000	105,000	548,400
		Interpreter	1,500	3,600	3,600	8,400	8,400	9,600	10,800	18,000	18,000	18,000	99,900
		Cleaning person	450	2,160	2,160	2,160	2,280	3,600	3,780	5,280	5,520	7,200	34,590
	Sub-total		36,450	107,760	134,160	220,560	220,680	239,400	271,380	364,080	386,520	402,600	2,383,590
Factory	Manager	Product Mgr	1,500	3,600	3,600	4,800	4,800	4,800	5,400	5,400	6,000	6,000	45,900
		Product Technology M	1,500	3,600	3,600	4,800	4,800	4,800	5,400	5,400	6,000	6,000	45,900
		Product Control Mgr	1,500	3,600	3,600	4,800	4,800	4,800	5,400	5,400	6,000	6,000	45,900
		Quality Control Mgr	1,500	3,600	3,600	4,800	4,800	4,800	5,400	5,400	6,000	6,000	45,900
	Labor	Production Workers	22,500	194,400	302,400	376,200	456,000	567,600	720,000	1,014,000	1,176,000	1,440,000	6,269,100
	Sub-total		28,500	208,800	316,800	395,400	475,200	586,800	741,600	1,035,600	1,200,000	1,464,000	6,452,700
Total			64,950	316,560	450,960	615,960	695,880	826,200	1,012,980	1,399,680	1,586,520	1,866,600	8,836,290

DENSO INDUSTRY YANGON LIMITED

Annex I-2 Details of Local and Foreign Personnel And Their Salaries (per year)

Expressed in US$

			5 months in Year 1			Year 2			Year 3			Year 4			Yea	
Division	Position	Description	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salar
Administration Office	Director	Foreign Director	1	5,000	25,000	1	5,000	60,000	1	5,000	60,000	2	5,000	120,000	2	5,000
	Manager	Senior Mgr	2	500	5,000	2	500	12,000	2	500	12,000	2	600	14,400	2	600
		Accounting Mgr	1	300	1,500	2	300	7,200	2	300	7,200	2	400	9,600	2	400
	Superviso	General affairs Dept	1	300	1,500	1	300	3,600	2	300	7,200	2	350	8,400	2	350
		Materials/Customs Dept	1	300	1,500	2	300	7,200	3	300	10,800	3	350	12,600	3	350
	Staff	Direct Dept Assistant	0	0	0	5	200	12,000	13	200	31,200	15	250	45,000	15	250
		Interpreter	1	300	1,500	1	300	3,600	1	300	3,600	2	350	8,400	2	350
		Cleaning person	1	90	450	2	90	2,160	2	90	2,160	2	90	2,160	2	95
	Sub-total		8	6,790	36,450	16	6,990	107,760	26	6,990	134,160	30	7,390	220,560	30	7,395
Factory	Manager	Product Mgr	1	300	1,500	1	300	3,600	1	300	3,600	1	400	4,800	1	400
		Product Technology Mgr	1	300	1,500	1	300	3,600	1	300	3,600	1	400	4,800	1	400
		Product Control Mgr	1	300	1,500	1	300	3,600	1	300	3,600	1	400	4,800	1	400
		Quality Control Mgr	1	300	1,500	1	300	3,600	1	300	3,600	1	400	4,800	1	400
	Labor	Production Workers	50	90	22,500	180	90	194,400	280	90	302,400	330	95	376,200	380	100
	Sub-total		54	1,290	28,500	184	1,290	208,800	284	1,290	316,800	334	1,695	395,400	384	1,700
Total			62	8,080	64,950	200	8,280	316,560	310	8,280	450,960	364	9,085	615,960	414	9,095

(Unit: USD)

5	Year 6			Year 7			Year 8			Year 9			Year 10		
Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary
120,000	2	5,000	120,000	2	5,000	120,000	3	5,000	180,000	3	5,000	180,000	3	5,000	180,000
14,400	2	650	15,600	2	700	16,800	2	750	18,000	2	750	18,000	2	750	18,000
9,600	2	450	10,800	2	500	12,000	2	500	12,000	2	500	12,000	2	600	14,400
8,400	3	350	12,600	4	350	16,800	5	350	21,000	5	350	21,000	5	400	24,000
12,600	4	350	16,800	4	400	19,200	5	450	27,000	5	450	27,000	6	500	36,000
45,000	15	280	50,400	20	300	72,000	23	300	82,800	25	350	105,000	25	350	105,000
8,400	2	400	9,600	2	450	10,800	3	500	18,000	3	500	18,000	3	500	18,000
2,280	3	100	3,600	3	105	3,780	4	110	5,280	4	115	5,520	5	120	7,200
220,680	33	7,580	239,400	39	7,805	271,380	47	7,960	364,080	49	8,015	386,520	51	8,220	402,600
4,800	1	400	4,800	1	450	5,400	1	450	5,400	1	500	6,000	1	500	6,000
4,800	1	400	4,800	1	450	5,400	1	450	5,400	1	500	6,000	1	500	6,000
4,800	1	400	4,800	1	450	5,400	1	450	5,400	1	500	6,000	1	500	6,000
4,800	1	400	4,800	1	450	5,400	1	450	5,400	1	500	6,000	1	500	6,000
456,000	430	110	567,600	500	120	720,000	650	130	1,014,000	700	140	1,176,000	800	150	1,440,000
475,200	434	1,710	586,800	504	1,920	741,600	654	1,930	1,035,600	704	2,140	1,200,000	804	2,150	1,464,000
695,880	467	9,290	826,200	543	9,725	1,012,980	701	9,890	1,399,680	753	10,155	1,586,520	855	10,370	1,866,600

Annex M-1 Calculation for Selling and Administrative Expenses

Expressed in US$

Particular	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Salary(administration)	36,450	107,760	134,160	220,560	220,680	239,400	271,380	364,080	386,520	402,600
Allowance(bonus)	970	3,300	4,520	5,460	5,480	7,300	8,630	10,880	10,920	13,600
Social insurance	1,091	3,222	4,018	6,617	6,620	7,182	8,141	10,922	11,596	12,078
Welfare	120	420	540	540	540	720	780	960	960	1,080
Rent(dormitory)	12,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
Rent(car)	6,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Communication	1,800	6,000	6,000	10,800	12,000	14,400	19,200	24,000	26,400	28,800
Travel expenses	1,800	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Stamps&postage	600	2,400	2,400	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Office supplies	600	2,400	2,400	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Consumable	1,800	6,000	6,000	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Newspaper etc	600	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Repair&maintenance	3,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Entertainment	1,800	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
Insurance expenses	6,000	12,000	12,000	10,800	12,000	14,400	19,200	24,000	26,400	28,800
Consultant fee	9,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
Audit fee	1,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Miscellaneous	3,000	12,000	12,000	10,800	12,000	14,400	19,200	24,000	26,400	28,800
Payment charges (License fee, bank chareges, taxes and duties etc.)	1,800	6,000	6,000	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Allowance(education)	3,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Total	92,431	240,302	268,838	365,977	372,120	405,402	463,731	585,642	620,796	652,158

DENSO INDUSTRY YANGON LIMITED

Annex N Profit & Loss Statement

Expressed in US$

Account	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Sales Income	**864,000**	**3,960,000**	**5,160,000**	**6,000,000**	**6,600,000**	**7,800,000**	**10,200,000**	**12,600,000**	**13,800,000**	**15,000,000**
Material Cost	*623,394*	*2,857,223*	*3,723,049*	*4,329,126*	*4,762,039*	*5,627,864*	*7,359,515*	*9,091,165*	*9,956,990*	*10,822,815*
Salary & Labor Cost	*28,500*	*208,800*	*316,800*	*395,400*	*475,200*	*586,800*	*741,600*	*1,035,600*	*1,200,000*	*1,464,000*
Depreciation	*47,735*	*70,614*	*79,045*	*65,041*	*56,075*	*61,306*	*68,883*	*71,508*	*71,820*	*72,133*
Factory rental fee(building and land)	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*
Utilities	*182,511*	*202,802*	*266,737*	*277,884*	*196,094*	*210,878*	*240,710*	*270,278*	*285,326*	*358,190*
Other Expense	*88,530*	*294,578*	*389,062*	*496,203*	*551,450*	*648,978*	*835,899*	*1,051,758*	*1,154,714*	*1,276,192*
Total Cost of goods sold	**1,018,670**	**3,682,017**	**4,822,694**	**5,611,655**	**6,088,858**	**7,183,825**	**9,294,605**	**11,568,308**	**12,716,850**	**14,041,330**
Gross Profit	**(154,670)**	**277,983**	**337,306**	**388,345**	**511,142**	**616,175**	**905,395**	**1,031,692**	**1,083,150**	**958,670**
Selling and Administrative Expenses	92,431	240,302	268,838	365,977	372,120	405,402	463,731	585,642	620,796	652,158
Commercial Tax Expenses	0	0	0	0	0	0	0	0	0	0
Operating Profit or Loss	**(247,100)**	**37,681**	**68,469**	**22,368**	**139,022**	**210,773**	**441,663**	**446,050**	**462,354**	**306,512**
Non-Operating Expenses	5,400	20,400	48,000	15,600	40,200	41,400	43,800	46,200	47,400	48,600
Expense on Corporate Social Responsibility	0	282	205	67	978	1,261	2,962	2,977	3,089	1,920
Earnings Before Income Tax	(252,500)	16,999	20,264	6,701	97,844	168,112	394,901	396,873	411,865	255,992
Income Tax (25%)	0	0	0	0	0	42,028	98,725	99,218	102,966	63,998
Net Income	**(252,500)**	**16,999**	**20,264**	**6,701**	**97,844**	**126,084**	**296,176**	**297,655**	**308,899**	**191,994**
CSR - 1% of Net Income		282	205	67	978	1,261	2,962	2,977	3,089	1,920

DENSO INDUSTRY YANGON LIMITED

Annex P Cash Flow Statement and Internal Rate of Return

Expressed in US$

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Cash Inflow										
Sales	864,000	3,960,000	5,160,000	6,000,000	6,600,000	7,800,000	10,200,000	12,600,000	13,800,000	15,000,000
Cash Outflow										
COGS (without depreciation)	970,934	3,611,403	4,743,648	5,546,614	6,032,782	7,122,520	9,225,723	11,496,800	12,645,030	13,969,197
Raw material	*623,394*	*2,857,223*	*3,723,049*	*4,329,126*	*4,762,039*	*5,627,864*	*7,359,515*	*9,091,165*	*9,956,990*	*10,822,815*
Labor Cost	*28,500*	*208,800*	*316,800*	*395,400*	*475,200*	*586,800*	*741,600*	*1,035,600*	*1,200,000*	*1,464,000*
Direct Overhead Expenses (Land and building rental+ Utilities + other expenses)	*319,040*	*545,380*	*703,800*	*822,087*	*795,543*	*907,856*	*1,124,608*	*1,370,035*	*1,488,040*	*1,682,382*
Expense (Selling & Administrative exp + non-operation Exp + CSR)	97,831	260,984	317,043	381,644	413,298	448,063	510,493	634,819	671,285	702,678
Income Tax	0	0	0	0	0	42,028	98,725	99,218	102,966	63,998
Total Cash Outflow	1,068,765	3,872,387	5,060,691	5,928,257	6,446,081	7,612,611	9,834,942	12,230,838	13,419,281	14,735,873
Cashflow from operations	-204,765	87,613	99,309	71,743	153,919	187,389	365,058	369,162	380,719	264,127
Capital investment and Disposal	-800,000									
Loan										
Net Cash Flow	-1,004,765	87,613	99,309	71,743	153,919	187,389	365,058	369,162	380,719	264,127
Accumulated Cash Flow	-1,004,765	-917,152	-817,842	-746,100	-592,180	-404,791	-39,733	329,429	710,148	974,275

IRR	**12.17%**
Payback period	**7 years 1 month 9 days**

The Chairman
The Myanmar Investment Commission
Building No.1, Thit Sar Road, Yankin Township, Yangon

Re: Our Commitment to Corporate Social Responsibility

Dear Sir,

Denso Industry Co., Ltd., indirectly holding 100% shareholder of Denso Industry Yangon Limited, has grown steadily during the past years by developing and implementing the Corporate Social Responsibility ("CSR") into our business. While we are proud of the results we have achieved, we believe that our success could not have achieved without community support. As we have successfully developed the CSR in our business in China, we wish to share our accomplishment and expand our dedication to the CSR in the Republic of the Union of Myanmar by reverting the company profit into society.

Accordingly, we confirm that Denso Industry Yangon Limited will spend one percent (1%) of its net business profit on the CSR activities and manage the CSR fund under the strict company policy and rule.

In addition, we promise to achieve our excellence in the CSR through the following activities:

1. Scholarship and education training program;
2. Development programs for neighboring community with local governmental authorities including activities such as providing lightening and road improvement ; and
3. Career training program for employment.

Should you have any queries please do not hesitate to contact us.

Thank you.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

အထွေထွေ အရပ်ရပ် -၁၆
(ရုံးတွင်း စာအကျဉ်းချုပ် (သို့မဟုတ်) စာကြမ်းရေးရန်အတွက်)

ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် ဩဂုတ်လ ၇ ရက်

အကြောင်းအရာ။ ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်း ကိစ္စ

၁။ အထက်အကြောင်းအရာပါ ကိစ္စနှင့် စပ်လျဉ်း၍ ကော်မရှင်၏ (၂၀/၂၀၁၄) ကြိမ်မြောက် အစည်းအဝေးသို့ တင်ပြမည့် အမှာစာမူကြမ်းအား ပြုစုတင်ပြအပ်ပါသည်။

ဖြိုးဖြိုးဆွေ

ဦးစီးအရာရှိ

၂။ MIC (၂၀/၂၀၁၄) ကြိမ်မြောက်အစည်းအဝေးသို့ တင်ပြမည့် အမှာစာ မူကြမ်း [illegible] တင်ပြအပ်ပါသည်။

7.8.14
(နန်းခင်ခင်ထား)

တာဝန်ခံညွှန်ကြားရေးမှူး

၃။ Denso Industry Yangon Ltd. တည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်း လုပ်ငန်း [illegible] ကိစ္စနှင့် စပ်လျဉ်း၍ ကော်မရှင်အစည်းအဝေးသို့ တင်ပြမည့် အမှာစာ (မူကြမ်း) အား ပြုစုတင်ပြအပ်ပါသည်။

7/8
(သန္တာ)

ဒုတိယညွှန်ကြားရေးမှူး

၄။ [illegible]

ညွှန်ကြားရေးမှူး

Ns-pat

အထွေထွေ အရပ်ရပ် -၁၆
(ရုံးတွင်း စာအကျဉ်းချုပ် (သို့မဟုတ်) စာကြမ်းရေးရန်အတွက်)

၁ MIC [illegible]
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

ကုမ္ပဏီအမည်- Denso Industry Yangon Limited

လုပ်ငန်း- လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာ ထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း

စဉ်	အကြောင်းအရာ	ဆောင်ရွက်သည့် နေ့စွဲ	ပြန်ကြားချက် ရရှိသည့် နေ့စွဲ	မှတ်ချက်
၁	အဆိုပြုလွှာလက်ခံရရှိခြင်း	၁၆-၅-၂၀၁၄		
၂	**သဘောထားမှတ်ချက်တောင်းခံခြင်း**			
	(က) စီမံကိန်းစိစစ်ရေးနှင့် တိုးတက်မှု အစီရင်ခံ ရေးဦးစီးဌာန	၂၀-၅-၂၀၁၄	၂၂-၅-၂၀၁၄	
	(ခ) ရန်ကုန်တိုင်းဒေသကြီးအစိုးရအဖွဲ့	၂၁-၅-၂၀၁၄	၂၄-၆-၂၀၁၄	
	(ဂ) ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးနှင့် သစ်တော ရေးရာဝန်ကြီးဌာန	၂၁-၅-၂၀၁၄	၁၁-၆-၂၀၁၄	
	(ဃ) စက်မှုဝန်ကြီးဌာန	၂၁-၅-၂၀၁၄	၉-၆-၂၀၁၄	
၃	အဆိုပြုချက်စိစစ်ရေးအဖွဲ့ အစည်းအဝေး (၂၁/၂၀၁၄) သို့ တင်ပြခြင်း	၂၂-၅-၂၀၁၄		
၄	အဆိုပြုလွှာ လက်ခံကြောင်းစာ ပေးပို့ခြင်း	၂၆-၅-၂၀၁၄		
၅	**မြေအသုံးပြုခွင့်တင်ပြခြင်း**			
	(က) ကော်မရှင်အစည်းအဝေး (၁၆/၂၀၁၄) သို့ တင်ပြခြင်း	၁၃-၆-၂၀၁၄		
	(ခ) စီးပွားရေးရာကော်မတီအစည်းအဝေး (၂၂/၂၀၁၄)သို့ တင်ပြခြင်း	၃-၇-၂၀၁၄		
	(ဂ) ပြည်ထောင်စုအစိုးရအဖွဲ့ (၁၄/၂၀၁၄) အစည်းအဝေးသို့တင်ပြခြင်း	၁၇-၇-၂၀၁၄		
၆	ကုမ္ပဏီသို့ လိုအပ်ချက်များပြင်ဆင်ရန် အကြောင်းကြားခြင်း	၂၉-၅-၂၀၁၄		
၇	ကုမ္ပဏီမှ လိုအပ်ချက်များ ပြင်ဆင်တင်ပြခြင်း		၃၀-၆-၂၀၁၄	
၈	ကုမ္ပဏီမှ ပြင်ဆင်ချက်များအား ထပ်မံ ပြင်ဆင်ပေးပို့ခြင်း		၁၈-၈-၂၀၁၄	
၉	**စုစုပေါင်းကြာမြင့်ရက် ၉၃ ရက်**			

အကြောင်းအရာ။ **ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်း ကိစ္စ**

၁။	ကုမ္ပဏီအမည်/ ကမကထပြုသူ	- Denso Industry Yangon Limited - Mr. Takashi MISHIMA (ဂျပန်)
	အဖွဲ့အစည်းပုံသဏ္ဍာန်	- ရာခိုင်နှုန်းပြည့်နိုင်ငံခြား ရင်းနှီးမြှုပ်နှံမှု - Denso Industry Asia Co., Ltd. (ဟောင်ကောင်) ၉၉.၉၉၉၅ % - Denso Industry Co., Ltd. (ဂျပန်) ၀.၀၀၀၅%
	လုပ်ငန်းအမျိုးအစား	- လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း
၂။	တည်နေရာ	- မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြဲလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး
	မြေအကျယ်အဝန်း	- မြေ ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက)
	မြေပိုင်ရှင်	- ဒေါ်ကျင်သန်း (၂၂-၈-၂၀၁၁ နေ့မှစ၍ နှစ် ၆၀)
၃။	နှစ်စဉ်မြေ နှင့် အဆောက်အဦငှားရမ်းခ	- နှစ်စဉ်မြေနှင့် အဆောက်အဦငှားရမ်းခမှာ ကျပ် ၄၅.၆ သန်း ဖြစ်ပါသည်။ - မြေ တစ်နှစ် တစ်စတုရန်းမီတာလျှင် ကျပ် ၃၈,၃၄၆ နှုန်းဖြစ်ပါသည်။
	အဆောက်အဦ	- ၄၈.၇၆၈ မီတာx ၂၄.၃၈၄ မီတာ တစ်ထပ်အဆောက်အဦတစ်လုံး
	မြေငှားသက်တမ်း	- ၄ နှစ်
၄။	လုပ်ငန်းသက်တမ်း	- ၃၀ နှစ်
	တည်ဆောက်ရေးကာလ	- ၂ နှစ်
၅။	စုစုပေါင်းရင်းနှီးမြှုပ်နှံမှု	- အမေရိကန်ဒေါ်လာ ၀.၈၀၀ သန်း
	ထည့်ဝင်သည့် အမျိုးအစား	- US$ (သန်း)
	ငွေသား	၀.၂၇၂
	စက်နှင့်စက်ပစ္စည်း (ပြည်ပ)	၀.၅၂၈
	စုစုပေါင်း	**၀.၈၀၀**
၆။	ဝန်ထမ်းအင်အား (ပထမနှစ်)	- **၆၂ ဦး**
	ပြည်တွင်း	- ၆၁ ဦး (ပြည်တွင်းဝန်ထမ်း တစ်ဦး၏ အနိမ့်ဆုံး လစာမှာ US$ ၇၀၊ အမြင့်ဆုံးလစာမှာ US$ ၅၀၀)
	ပြည်ပ	- ၁ ဦး (ပြည်ပဝန်ထမ်း တစ်ဦး၏ လစာမှာ US$ ၅,၀၀၀)
၇။	ရောင်းချမည့်စနစ်	- ၁၀၀ % ပြည်ပသို့ တင်ပို့ခြင်း
၈။	ကုမ္ပဏီ၏ ဝင်ငွေ (ဆဋ္ဌမနှစ်)	- US$ ၇.၈၀၀ သန်း
	ကုမ္ပဏီ၏ အသုံးစရိတ် (ဆဋ္ဌမနှစ်)	- US$ ၇.၆၇၄ သန်း
	ကုမ္ပဏီ၏ အသားတင်အမြတ် (ဆဋ္ဌမနှစ်)	- US$ ၀. ၁၂၆ သန်း

၉။	နိုင်ငံတော်မှရရှိမည့်အကျိုးအမြတ် (ဆဌမနှစ်)	
	ဝင်ငွေခွန်	- US$ ၀.၀၄၂ သန်း (အမေရိကန် ဒေါ်လာ ၁ ဒေါ်လာ = ၉၆၀ကျပ်)
	အရင်းကြေကာလ	- ၇ နှစ် ၁ လ
	အရင်းအနှီးအပေါ်အကျိုးအမြတ်ပြန်ပေါ်နှုန်း (IRR)	- ၁၂.၄၃ %
၁၀။	လျှပ်စစ်ဓါတ်အားသုံးစွဲမှု	- ၂၆၇,၃၀၀ KW
၁၁။	ပြည်ပမှ အခွန်အကောက်ကင်းလွတ်ခွင့် တောင်းခံခြင်း	
	(က) စက်ပစ္စည်း	- **ပူးတွဲ-၁** ဖြင့် တင်ပြထားပါ သည်။
	(ခ) ကုန်ကြမ်းပစ္စည်း	- **ပူးတွဲ-၂** ဖြင့် တင်ပြထားပါသည်။
၁၂။	CSR	- ပတ်ဝန်းကျင်နှင့် လူမှုရေးဆိုင်ရာ စောင့်ကြည့်လေ့လာမည့် လုပ်ငန်းများအတွက် ကျန်းမာရေး၊ လူမှုရေး၊ သက်သာချောင်ချိရေး ကိစ္စရပ်များတွင် သုံးစွဲနိုင်ရန် အသားတင်အမြတ်ငွေမှ ၁ % ကို ရန်ပုံငွေအဖြစ် လျာထားပါကြောင်း တင်ပြထားပါသည်။
၁၃။	မီးဘေးကြိုတင်ကာကွယ်ရေးစီမံချက်	- မီးဘေးကြိုတင်ကာကွယ်ရေးအတွက် မီးဘေးကြိုတင်ကာကွယ်ရေးအရာရှိများ ထားရှိဆောင်ရွက်မည် ဖြစ်ကြောင်း၊ အဆောက်အဦလှေကားများနှင့် တံခါးပေါက်များတွင် မီးသတ်ပိုက်များ၊ မီးသတ်ဆေးဘူးများ ထားရှိမည် ဖြစ်ပါကြောင်း၊ ဆေးလိပ်သောက်ခြင်းကို တင်းကြပ်စွာ တားမြစ်ထားပါကြောင်း၊ မီးအချက်ပေးကိရိယာများ တပ်ဆင်ထားပါကြောင်း၊ ဝန်ထမ်းများကိုလည်း မီးသတ်ဦးစီးဌာနမှ ဖွင့်လှစ်သော သင်တန်းများသို့ တက်ရောက်စေမည် ဖြစ်ပါကြောင်း တင်ပြထားပါသည်။

DENSO INDUSTRY YANGON LIMITED

Annex D List of New Machinery, Tool and Equipment (100% Imported Items)

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year10	Total
1	Fuel tank	1000L	1	2,000	2,000	Year 1	2,000	-	-	-	-	-	-	-	-	-	2,000
2	Fuel tank	8000L	1	5,000	5,000	Year 1	5,000	-	-	-	-	-	-	-	-	-	5,000
3	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 1	32,000	-	-	-	-	-	-	-	-	-	32,000
4	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 4	-	-	-	32,000	-	-	-	-	-	-	32,000
5	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 6	-	-	-	-	-	32,000	-	-	-	-	32,000
6	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 8	-	-	-	-	-	-	-	32,000	-	-	32,000
7	Reel stand	HK-007	2	2,500	5,000	Year 1	5,000	-	-	-	-	-	-	-	-	-	5,000
8	Reel stand	HK-007	2	2,500	5,000	Year 4	-	-	-	5,000	-	-	-	-	-	-	5,000
9	Reel stand	HK-007	2	2,500	5,000	Year 6	-	-	-	-	-	5,000	-	-	-	-	5,000
10	Reel stand	HK-007	2	2,500	5,000	Year 8	-	-	-	-	-	-	-	5,000	-	-	5,000
11	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	4	2,000	8,000	Year 1	8,000	-	-	-	-	-	-	-	-	-	8,000
12	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	4	2,000	8,000	Year 2	-	8,000	-	-	-	-	-	-	-	-	8,000
13	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	2	2,000	4,000	Year 4	-	-	-	4,000	-	-	-	-	-	-	4,000
14	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	2	2,000	4,000	Year 6	-	-	-	-	-	4,000	-	-	-	-	4,000
15	Applicator	Needs to be considered by the production Number	14	1,000	14,000	Year 1	14,000	-	-	-	-	-	-	-	-	-	14,000
16	Applicator	Needs to be considered by the production Number	10	1,000	10,000	Year 2	-	10,000	-	-	-	-	-	-	-	-	10,000
17	Applicator	Needs to be considered by the production Number	10	1,000	10,000	Year 3	-	-	10,000	-	-	-	-	-	-	-	10,000

Annex D List of New Machinery, Tool and Equipment (100% Imported Items)

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year10	Total
18	Applicator	Needs to be considered by the production Number	10	1,000	10,000	Year 4	-	-	-	10,000	-	-	-	-	-	-	10,000
19	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 5	-	-	-	-	5,000	-	-	-	-	-	5,000
20	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 6	-	-	-	-	-	5,000	-	-	-	-	5,000
21	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 7	-	-	-	-	-	-	5,000	-	-	-	5,000
22	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 8	-	-	-	-	-	-	-	5,000	-	-	5,000
23	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 9	-	-	-	-	-	-	-	-	5,000	-	5,000
24	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 10	-	-	-	-	-	-	-	-	-	5,000	5,000
25	Microscope	CJK-01	2	100	200	Year 1	200	-	-	-	-	-	-	-	-	-	200
26	Microscope	Inspection camera	4	120	480	Year 1	480	-	-	-	-	-	-	-	-	-	480
27	Microscope	Inspection camera	2	120	240	Year 2	-	240	-	-	-	-	-	-	-	-	240
28	Microscope	Inspection camera	4	120	480	Year 3	-	-	480	-	-	-	-	-	-	-	480
29	Microscope	Inspection camera	2	120	240	Year 4	-	-	-	240	-	-	-	-	-	-	240
30	Microscope	Inspection camera	2	120	240	Year 5	-	-	-	-	240	-	-	-	-	-	240
31	Checker	NACMAN NMC128	4	1,200	4,800	Year 1	4,800	-	-	-	-	-	-	-	-	-	4,800
32	Checker	NACMAN NMG64	2	4,300	8,600	Year 1	8,600	-	-	-	-	-	-	-	-	-	8,600
33	Checker	NACMAN NMG64	1	4,300	4,300	Year 2	-	4,300	-	-	-	-	-	-	-	-	4,300
34	Checker	NACMAN NMG64	1	4,300	4,300	Year 3	-	-	4,300	-	-	-	-	-	-	-	4,300
35	Storip Machine	COSMIC 927R	1	4,992	4,992	Year 1	4,992	-	-	-	-	-	-	-	-	-	4,992
36	Storip Machine	ZKS-12	1	3,328	3,328	Year 1	3,328	-	-	-	-	-	-	-	-	-	3,328
37	Storip Machine	ZKS-12	2	3,328	6,656	Year 2	-	6,656	-	-	-	-	-	-	-	-	6,656
38	Air Compressor	22kw Capacity	2	50,000	100,000	Year 1	100,000	-	-	-	-	-	-	-	-	-	100,000

Annex D List of New Machinery, Tool and Equipment (100% Imported Items)

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year10	Total
39	Air tank	400L Capacity	1	2,667	2,667	Year 1	2,667	-	-	-	-	-	-	-	-	-	2,667
40	UPS	SMU-HB152-R-200 200V1.5KVA	1	3,616	3,616	Year 1	3,616	-	-	-	-	-	-	-	-	-	3,616
41	Checker	NACMAN NMC60	6	1,141	6,844	Year 1	6,844	-	-	-	-	-	-	-	-	-	6,844
42	Checker	NACMAN NMC60	2	1,141	2,281	Year 2	-	2,281	-	-	-	-	-	-	-	-	2,281
43	Checker	NACMAN NMC60	2	1,141	2,281	Year 3	-	-	2,281	-	-	-	-	-	-	-	2,281
44	Checker	NACMAN NMC60	2	1,141	2,281	Year 4	-	-	-	2,281	-	-	-	-	-	-	2,281
45	Checker	NACMAN NMC60	2	1,141	2,281	Year 5	-	-	-	-	2,281	-	-	-	-	-	2,281
46	Checker	NACMAN NMC60	2	1,141	2,281	Year 6	-	-	-	-	-	2,281	-	-	-	-	2,281
47	Digital cutter	ZKC-25	1	7,325	7,325	Year 1	7,325	-	-	-	-	-	-	-	-	-	7,325
48	Wire twist machine	HK-029	4	1,543	6,173	Year 1	6,173	-	-	-	-	-	-	-	-	-	6,173
49	Wire twist machine	HK-029	2	1,543	3,086	Year 2	-	3,086	-	-	-	-	-	-	-	-	3,086
50	Wire twist machine	HK-029	2	1,543	3,086	Year 3	-	-	3,086	-	-	-	-	-	-	-	3,086
			161		436,060		215,024	34,564	20,148	53,521	7,521	48,281	5,000	42,000	5,000	5,000	436,060

DENSO INDUSTRY YANGON LIMITED

Annex D List of Reconditioned Machine (100% Imported Items)

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
1	Generator	600REOZM D600 24.5A50/60 ENGINE 5M ALTERNATOR	1	10,997	10,997	Year 1	10,997	-	-	-	-	-	-	-	-	-	10,997
2	Fully automatic crimping machine	JN03S-A1-FX	3	38,275	114,825	Year 1	114,825	-	-	-	-	-	-	-	-	-	114,825
3	Fully automatic crimping machine	JN01SS II	1	26,164	26,164	Year 1	26,164	-	-	-	-	-	-	-	-	-	26,164
4	Fully automatic crimping machine	JN03S-A1-FX	1	11,632	11,632	Year 2	-	11,632	-	-	-	-	-	-	-	-	11,632
5	Fully automatic crimping machine	JN03S-A1-FX	1	21,356	21,356	Year 2	-	21,356	-	-	-	-	-	-	-	-	21,356
6	Fully automatic crimping machine	JN03S-A1-FX	1	39,806	39,806	Year 2	-	39,806	-	-	-	-	-	-	-	-	39,806
7	Fully automatic crimping machine	TR201	1	28,000	28,000	Year 2	-	28,000	-	-	-	-	-	-	-	-	28,000
8	Fully automatic crimping machine	TR201	1	21,866	21,866	Year 3	-	-	21,866	-	-	-	-	-	-	-	21,866
9	Fully automatic crimping machine	TR201	1	30,125	30,125	Year 3	-	-	30,125	-	-	-	-	-	-	-	30,125
10	Fully automatic crimping machine	TR201	1	30,125	30,125	Year 4	-	-	-	30,125	-	-	-	-	-	-	30,125
11	Fully automatic crimping machine	TR201	1	31,709	31,709	Year 4	-	-	-	31,709	-	-	-	-	-	-	31,709
12	Fully automatic crimping machine	TR201	1	31,709	31,709	Year 5	-	-	-	-	31,709	-	-	-	-	-	31,709
13	Fully automatic crimping machine	TR201	1	8,896	8,896	Year 5	-	-	-	-	8,896	-	-	-	-	-	8,896
14	Fully automatic crimping machine	TR201	1	13,294	13,294	Year 5	-	-	-	-	13,294	-	-	-	-	-	13,294
15	Fully automatic crimping machine	JN07SD	1	49,083	49,083	Year 6	-	-	-	-	-	49,083	-	-	-	-	49,083
16	Fully automatic crimping machine	JN07SD	1	49,083	49,083	Year 6	-	-	-	-	-	49,083	-	-	-	-	49,083
17	Fully automatic crimping machine	JN07SDW-H	1	86,782	86,782	Year 7	-	-	-	-	-	-	86,782	-	-	-	86,782
18	Fully automatic crimping machine	JN07SDW-H	1	86,782	86,782	Year 7	-	-	-	-	-	-	86,782	-	-	-	86,782
19	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	-	8,609	-	-	-	-	-	-	-	-	8,609
20	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	-	8,609	-	-	-	-	-	-	-	-	8,609
21	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	-	8,609	-	-	-	-	-	-	-	-	8,609
			23		718,061		151,985	126,622	51,990	61,834	53,899	98,165	173,565	-	-	-	718,061

DENSO INDUSTRY YANGON LIMITED

(100% Imported Items)

Annex H-1.1.1 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - IDT Harness

NO	Item	Unit	Standard Quantity (unit)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
				Production Forecast of Finished Goods(units) IDT-Harness									
				190,080	871,200	1,135,200	1,320,000	1,452,000	1,716,000	2,244,000	2,772,000	3,036,000	3,300,000
				Forecast of Required Raw Material(Units)									
1	Wire	Meter	0.04000000	7,603	34,848	45,408	52,800	58,080	68,640	89,760	110,880	121,440	132,000
2	Connector	Pcs	2.00000000	380,160	1,742,400	2,270,400	2,640,000	2,904,000	3,432,000	4,488,000	5,544,000	6,072,000	6,600,000
3	Packing bag	Sheet	0.00500000	950	4,356	5,676	6,600	7,260	8,580	11,220	13,860	15,180	16,500
4	Packing box	Box	0.00050000	95	436	568	660	726	858	1,122	1,386	1,518	1,650
5	Blade	Sheet	0.00003382	6	29	38	45	49	58	76	94	103	112
6	Wrap	Roll	0.00000100	0	1	1	1	1	2	2	3	3	3
7	Bag Label	Sheet	0.00500000	950	4,356	5,676	6,600	7,260	8,580	11,220	13,860	15,180	16,500
8	Box Label	Sheet	0.00050000	95	436	568	660	726	858	1,122	1,386	1,518	1,650
9	Silicagel	Pcs	0.00500000	950	4,356	5,676	6,600	7,260	8,580	11,220	13,860	15,180	16,500
10	Aircap	Sheet	0.00050000	95	436	568	660	726	858	1,122	1,386	1,518	1,650
	Total			390,906	1,791,653	2,334,578	2,714,626	2,986,089	3,529,014	4,614,864	5,700,715	6,243,640	6,786,565

* IDT = Insulator Displacing Termination

DENSO INDUSTRY YANGON LIMITED

(100% Imported Items)

Annex H-1.2.1 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Crimping harness

				Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
				Production Forecast of Finished Goods(units) Crimping harness									
				1,811,931	8,304,686	10,821,257	12,582,857	13,841,143	16,357,714	21,390,857	26,424,000	28,940,571	31,457,143
NO	Item	Unit	Std Qty (unit)	Forecast of Required Raw Material(Units)									
1	Wire	Meter	0.040	72,477	332,187	432,850	503,314	553,646	654,309	855,634	1,056,960	1,157,623	1,258,286
2	Connector	Pcs	2.000	3,623,863	16,609,371	21,642,514	25,165,714	27,682,286	32,715,429	42,781,714	52,848,000	57,881,143	62,914,286
3	Terminal	Pcs	8.000	14,495,451	66,437,486	86,570,057	100,662,857	110,729,143	130,861,714	171,126,857	211,392,000	231,524,571	251,657,143
4	Packing bag	Sheet	0.005	9,060	41,523	54,106	62,914	69,206	81,789	106,954	132,120	144,703	157,286
5	Packing box	Box	0.001	906	4,152	5,411	6,291	6,921	8,179	10,695	13,212	14,470	15,729
6	Blade	Sheet	0.000	61	281	366	426	468	553	723	894	979	1,064
7	Wrap	Roll	0.000	18	83	108	126	138	164	214	264	289	315
8	Tube	Meter	0.020	36,239	166,094	216,425	251,657	276,823	327,154	427,817	528,480	578,811	629,143
9	Bag Label	Sheet	0.005	9,060	41,523	54,106	62,914	69,206	81,789	106,954	132,120	144,703	157,286
10	Box Label	Sheet	0.001	906	4,152	5,411	6,291	6,921	8,179	10,695	13,212	14,470	15,729
11	Silicagel	Pcs	0.005	9,060	41,523	54,106	62,914	69,206	81,789	106,954	132,120	144,703	157,286
12	Aircap	Sheet	0.001	906	4,152	5,411	6,291	6,921	8,179	10,695	13,212	14,470	15,729
Total				18,258,006	83,682,529	109,040,872	126,791,711	139,470,882	164,829,225	215,545,909	266,262,594	291,620,936	316,979,278

DENSO INDUSTRY YANGON LIMITED (100% Imported Items)

Annex H-1.3.1 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Solder harness

NO	Item	Unit	Standard Quantity (unit)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
				Production Forecast of Finished Goods(units) Solder harness									
				3,456,000	15,840,000	20,640,000	24,000,000	26,400,000	31,200,000	40,800,000	50,400,000	55,200,000	60,000,000
				Forecast of Required Raw Material(Units)									
1	Wire	Meter	0.040	138,240	633,600	825,600	960,000	1,056,000	1,248,000	1,632,000	2,016,000	2,208,000	2,400,000
2	Solder	Kg	0.000	691	3,168	4,128	4,800	5,280	6,240	8,160	10,080	11,040	12,000
3	Packing bag	Sheet	0.005	17,280	79,200	103,200	120,000	132,000	156,000	204,000	252,000	276,000	300,000
4	Packing box	Box	0.001	1,728	7,920	10,320	12,000	13,200	15,600	20,400	25,200	27,600	30,000
5	Wrap	Roll	0.000	2	8	10	12	13	16	20	25	28	30
6	Bag Label	Sheet	0.005	17,280	79,200	103,200	120,000	132,000	156,000	204,000	252,000	276,000	300,000
7	Box Label	Sheet	0.001	1,728	7,920	10,320	12,000	13,200	15,600	20,400	25,200	27,600	30,000
8	Silicagel	Pcs	0.005	17,280	79,200	103,200	120,000	132,000	156,000	204,000	252,000	276,000	300,000
9	Flux	18ℓ	0.000	1	3	4	5	5	6	8	10	11	12
10	Aircap	Sheet	0.001	1,728	7,920	10,320	12,000	13,200	15,600	20,400	25,200	27,600	30,000
Total				195,958	898,139	1,170,302	1,360,817	1,496,898	1,769,062	2,313,389	2,857,715	3,129,879	3,402,042

DENSO INDUSTRY YANGON LIMITED (100% Imported Items)

Annex H-1.4.1 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Other harn

				Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
				Production Forecast of Finished Goods(units) Others harness									
				191,520	877,800	1,143,800	1,330,000	1,463,000	1,729,000	2,261,000	2,793,000	3,059,000	3,325,000
NO	Item	Unit	Standard Quantity (unit)	Forecast of Required Raw Material(Units)									
1	Wire	Meter	0.040000	7,661	35,112	45,752	53,200	58,520	69,160	90,440	111,720	122,360	133,000
2	Connector	Pcs	2.000000	383,040	1,755,600	2,287,600	2,660,000	2,926,000	3,458,000	4,522,000	5,586,000	6,118,000	6,650,000
3	Terminal	Pcs	8.000000	1,532,160	7,022,400	9,150,400	10,640,000	11,704,000	13,832,000	18,088,000	22,344,000	24,472,000	26,600,000
4	Solder	Kg	0.001000	192	878	1,144	1,330	1,463	1,729	2,261	2,793	3,059	3,325
5	Band	Pcs	0.500000	95,760	438,900	571,900	665,000	731,500	864,500	1,130,500	1,396,500	1,529,500	1,662,500
6	Tape	Meter	0.030000	5,746	26,334	34,314	39,900	43,890	51,870	67,830	83,790	91,770	99,750
7	Packing bag	Sheet	0.500000	95,760	438,900	571,900	665,000	731,500	864,500	1,130,500	1,396,500	1,529,500	1,662,500
8	Packing box	Box	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
9	Blade	Sheet	0.000034	6	30	39	45	49	58	76	94	103	112
10	Wrap	Roll	0.000010	2	9	11	13	15	17	23	28	31	33
11	Tube	Meter	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
12	Bag Label	Sheet	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
13	Box Label	Sheet	0.010000	1,915	8,778	11,438	13,300	14,630	17,290	22,610	27,930	30,590	33,250
14	Silicagel	Pcs	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
15	Flux	18ℓ	0.000005	1	4	6	7	7	9	11	14	15	17
16	Label	Sheet	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
Total				2,218,002	10,165,845	13,246,404	15,402,795	16,943,074	20,023,633	26,184,751	32,345,869	35,426,428	38,506,987

DENSO INDUSTRY YANGON LIMITED (100% Imported Items)

Annex H-3 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Total Quantity and Price

Unit

No	Particulars	Unit	Price	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
1	Aircap	Sheet	0.156	2,729	12,508	16,298	18,951	20,847	24,637	32,217	39,798	43,588	47,379	258,952
2	Bag Label	Sheet	0.770	46,442	212,859	277,362	322,514	354,766	419,269	548,274	677,280	741,783	806,286	4,406,835
3	Band	Pcs	0.025	95,760	438,900	571,900	665,000	731,500	864,500	1,130,500	1,396,500	1,529,500	1,662,500	9,086,560
4	Blade	Sheet	56.000	74	340	443	515	567	670	876	1,082	1,185	1,288	7,039
5	Box Label	Sheet	0.008	4,644	21,286	27,736	32,251	35,477	41,927	54,827	67,728	74,178	80,629	440,684
6	Connector	Pcs	0.030	4,387,063	20,107,371	26,200,514	30,465,714	33,512,286	39,605,429	51,791,714	63,978,000	70,071,143	76,164,286	416,283,520
7	Flux	18ℓ	250.00	2	8	10	11	13	15	19	24	26	29	156
8	Label	Sheet	0.008	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500	1,817,312
9	Packing bag	Sheet	0.008	123,050	563,979	734,882	854,514	939,966	1,110,869	1,452,674	1,794,480	1,965,383	2,136,286	11,676,083
10	Packing box	Box	0.156	21,881	100,288	130,678	151,951	167,147	197,537	258,317	319,098	349,488	379,879	2,076,264
11	Silicagel	Pcs	0.002	46,442	212,859	277,362	322,514	354,766	419,269	548,274	677,280	741,783	806,286	4,406,835
12	Solder	Kg	50.000	883	4,046	5,272	6,130	6,743	7,969	10,421	12,873	14,099	15,325	83,760
13	Tape	Meter	0.300	5,746	26,334	34,314	39,900	43,890	51,870	67,830	83,790	91,770	99,750	545,194
14	Terminal	Pcs	0.019	16,027,611	73,459,886	95,720,457	111,302,857	122,433,143	144,693,714	189,214,857	233,736,000	255,996,571	278,257,143	1,520,842,240
15	Tube	Meter	0.191	55,391	253,874	330,805	384,657	423,123	500,054	653,917	807,780	884,711	961,643	5,255,955
16	Wire	Meter	0.339	225,981	1,035,747	1,349,610	1,569,314	1,726,246	2,040,109	2,667,834	3,295,560	3,609,423	3,923,286	21,443,110
17	Wrap	Roll	10.00	22	101	131	152	168	198	259	320	351	381	2,083
				21,062,873	96,538,166	125,792,156	146,269,949	160,896,944	190,150,934	248,658,913	307,166,893	336,420,883	365,674,873	1,998,632,583
	Total cost of purchase			623,394	2,857,223	3,723,049	4,329,126	4,762,039	5,627,864	7,359,515	9,091,165	9,956,990	10,822,815	

ကုမ္ပဏီအမည်	-	Denso Industry Yangon Limited
အဖွဲ့အစည်းပုံသဏ္ဌာန်	-	ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု
လုပ်ငန်းအမျိုးအစား	-	လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း
တည်နေရာ	-	မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်း စက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး
စုစုပေါင်းရင်းနှီးမြှုပ်နှံမှု	-	အမေရိကန်ဒေါ်လာ ၀.၈၀ သန်း
ရောင်းချမည့်စနစ်	-	ပြည်ပသို့ ၁၀၀ % တင်ပို့ရောင်းချခြင်း
လုပ်ငန်းသက်တမ်း	-	၃၀ နှစ်
အရင်းကြေကာလ	-	၇ နှစ် ၁ လ
IRR	-	၁၂.၄၃ %

အထက်ပါလုပ်ငန်းဆောင်ရွက်ခြင်းဖြင့် နိုင်ငံတော်၏ Cost & Benefit ကို အောက်ပါဇယားဖြင့် ပြုစုတင်ပြအပ်ပါသည်-

စဉ်	အကြောင်းအရာ	Cost	Benefit
၁	နိုင်ငံ့ဝန်ထမ်း၏လစာ	ကျပ် ၁.၅၄၈ သန်း (တစ်နှစ်)	
၂	ကုမ္ပဏီမှတ်ပုံတင်ကြေး	-	ကျပ် ၁.၁၆၅ သန်း
၃	သွင်းကုန်အခွန်ကင်းလွတ်ခွင့်	ကျပ် ၁၂.၈၇ သန်း	
၄	ကုန်သွယ်လုပ်ငန်းခွန်	-	-
၅	ဝင်ငွေခွန်	ကျပ် ၃၈.၃၀၂ သန်း	ကျပ် ၁၃၅.၁၂ သန်း
၆	ရေ၊ လျှပ်စစ်မီးသုံးစွဲခ		ကျပ် ၄၀.၃၂ သန်း
၇	လုပ်ခလစာအပေါ်ဝင်ငွေခွန်		တစ်နှစ် ဝင်ငွေ ကျပ် သိန်း (၂၀) ကျော်ပါက အခွန်ပေးရမည့် ဝန်ထမ်း (၁၂) ဦး
၈	CSR		ကျပ် ၈.၃၈ သန်း
၉	မြေငှားရမ်းခရငွေ		ကျပ် ၃၁၉.၂ သန်း
၁၀	အလုပ်အကိုင်အခွင့်အလမ်း		ပြည်တွင်း ၆၁ ဦး ပြည်ပ ၁ ဦး ပြည်တွင်းလုပ်သား (၆၁) ဦး အလုပ် အကိုင်ရရှိမည် ဖြစ်၍ ဒေသ အလုပ် အကိုင် အခွင့်အလမ်းနှင့် ဒေသစီးပွားရေး ဖွံ့ဖြိုးတိုးတက်မှုကို အထောက်အကူပြုစေပါသည်။ အလုပ်အကိုင်အခွင့်အလမ်းများ ပိုမိုရရှိစေပြီး ဆင်းရဲနွမ်းပါးမှုလျော့ချရေးကို အထောက်အကူပြုစေနိုင်ပါသည်။
		ကျပ် ၅၇.၃၇၈ သန်း	**ကျပ် ၅၀၄.၁၈၅ သန်း**
		၁ း ၉	

ကန့်သတ်

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

စာအမှတ်၊ ရက- ၃/န-၁၀၇၇ /၂၀၁၄(၁၃၁)
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် ဩဂုတ်လ ၂၅ ရက်

မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်သို့
တင်ပြမည့် အမှာစာ

အကြောင်းအရာ။ **ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်း ကိစ္စ**

၁။ ဟောင်ကောင်တွင် ဖွဲ့စည်းထားသော Denso Industry Asia Co., Ltd. မှ ၉၉.၉၉၉၅% နှင့် ဂျပန်နိုင်ငံ Denso Industry Co., Ltd. မှ ၀.၀၀၀၅ % ထည့်ဝင်၍ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်း ဒေသကြီးရှိ မြေ ၁.၆၁၀ ဧကအနက် ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) ၌ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်သို့ အဆိုပြုလွှာတင်ပြလာပါသည်။

၂။ အဆိုပြုချက်နှင့်အတူ မြေပိုင်ရှင် ဒေါ်ကျင်သန်းနှင့် Denso Industry Yangon Limited တို့ ချုပ်ဆိုမည့် မြေနှင့်အဆောက်အဦ ငှားရမ်းခြင်း စာချုပ်(မူကြမ်း)၊ အဆောက်အဦဓါတ်ပုံ၊ မြေဆိုင်ရာအထောက်အထားများနှင့် လုပ်ငန်းတည်နေရာပြ မြေပုံများနှင့် မြန်မာနိုင်ငံတွင် ဖွဲ့စည်းထားသော ကုမ္ပဏီသင်းဖွဲ့မှတ်တမ်းနှင့် သင်းဖွဲ့စည်းမျဉ်း (မူကြမ်း) တို့ကို ပူးတွဲတင်ပြထားပါသည်။

၃။ မြေငှားသက်တမ်းမှာ (၄) နှစ် ဖြစ်ပါသည်။ လုပ်ငန်းဆောင်ရွက်မည့် မြေဧရိယာ ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) အား တစ်နှစ်တစ်စတုရန်းမီတာလျှင် ၁၆,၃၄၆ ကျပ်နှုန်းဖြင့် လည်းကောင်း၊ ယင်းမြေပေါ်ရှိ (၄၈.၇၆၈ မီတာ x ၂၄.၃၈၄ မီတာ) အကျယ် တစ်ထပ်အဆောက်အဦ (၁)လုံးအား တစ်နှစ်တစ်စတုရန်းမီတာလျှင် ၂၂,၀၀၀ ကျပ်နှုန်းဖြင့် လည်းကောင်း ငှားရမ်းမည်ဖြစ်ပြီး တစ်နှစ်လျှင် စုစုပေါင်းငှားရမ်းခ ကျပ် ၄၅.၆ သန်း ရရှိမည်ဖြစ်ပါသည်။

၄။ လုပ်ငန်းစီမံကိန်းကာလမှာ (၃၀) နှစ်ဖြစ်ပြီး တည်ဆောက်မှုကာလ (၂)နှစ် ကြာမြင့်မည် ဖြစ်ကြောင်း တင်ပြထားပါသည်။

ကန့်သတ်

၅။ လုပ်ငန်း၏ စုစုပေါင်းရင်းနှီးမြှုပ်နှံမှုမှာ US$ ၀.၈၀ သန်း ဖြစ်ပြီး ၎င်းတွင် ငွေသား US$ ၀.၂၇ သန်းနှင့် စက်နှင့်စက်ပစ္စည်းတန်ဘိုး(ပြည်ပဝယ်) US$ ၀.၅၃ သန်းတို့ပါဝင်ပါသည်။

၆။ လုပ်ငန်းဆောင်ရွက်ရန်အတွက် ပထမနှစ်တွင် ပြည်တွင်းမှ ဝန်ထမ်း (၆၁) ဦးနှင့် ပြည်ပမှ ဝန်ထမ်း (၁) ဦး စုစုပေါင်း (၆၂) ဦး ခန့်ထားမည်ဖြစ်ပါသည်။ ပြည်တွင်းမှ အနိမ့်ဆုံး ဝန်ထမ်းတစ်ဦး၏ လစာမှာ US$ ၇၀ ဖြစ်ပြီး၊ အမြင့်ဆုံးဝန်ထမ်းတစ်ဦး၏ လစာမှာ US$ ၅၀၀ ဖြစ်ပါသည်။ ပြည်ပမှ ဝန်ထမ်းတစ်ဦး၏ လစာမှာ US$ ၅,၀၀၀ ဖြစ်ပါသည်။

၇။ လုပ်ငန်းမှ ထွက်ရှိသော ကုန်ချောပစ္စည်းများကို ပြည်ပသို့ ၁၀၀% တင်ပို့မည်ဖြစ်ပါသည်။ ပုံမှန်နှစ် (၆ နှစ်မြောက်) ၏ ထုတ်လုပ်မှု အရေအတွက်နှင့် ဈေးနှုန်းများမှာ အောက်ပါအတိုင်း ဖြစ်ပါသည်-

အမျိုးအမည်	ထုတ်လုပ်မှုအရေအတွက် (Pcs)	ပြည်ပ ရောင်းဈေးနှုန်း (US$/Pcs)
IDT harness	၁,၇၁၆,၀၀၀	၀.၁၀
Crimping harness	၁၆,၃၅၇,၇၁၄	၀.၂၀
Soldering harness	၃၁,၂၀၀,၀၀၀	၀.၀၂
Other harness	၁,၇၂၉,၀၀၀	၀.၄၀

၈။ ဤလုပ်ငန်းကို ဆောင်ရွက်ခြင်းဖြင့်ပုံမှန်နှစ် (၆)နှစ်မြောက်တွင် ရရှိမည့် ကုမ္ပဏီ၏ ဝင်ငွေနှင့် အသုံးစရိတ် ခန့်မှန်းခြေမှာ အောက်ပါအတိုင်း ဖြစ်ပါသည် -

		US $ (သန်း)
(က)	ဝင်ငွေ	၇.၈၀၀
(ခ)	အသုံးစရိတ်	၇.၆၇၄
(ဂ)	အသားတင်အမြတ်	၀.၁၂၆

၉။ ဤလုပ်ငန်းကို ဆောင်ရွက်ခြင်းဖြင့် နိုင်ငံတော်မှ ပုံမှန်နှစ်တွင် ရရှိမည့် အကျိုးအမြတ် ခန့်မှန်းခြေမှာ ဝင်ငွေခွန် US$ ၀.၀၄၂ သန်း ရရှိမည်ဖြစ်ပြီး လုပ်ငန်း၏ အရင်းကြေကာလမှာ ၇ နှစ် ၁ လ ဖြစ်ပြီး အရင်းအနှီးအပေါ် အကျိုးအမြတ်ပြန်ပေါ်နှုန်း IRR မှာ ၁၂.၄၃ % ဖြစ်ပါသည်။ အမေရိကန်ဒေါ်လာ တစ်ဒေါ်လာလျှင် ၉၆၀ ကျပ်နှုန်းဖြင့် တွက်ချက်ဖော်ပြထားပါသည်။

၁၀။ အဆိုပြုလုပ်ငန်းနှင့်စပ်လျဉ်း၍ သက်ဆိုင်ရာဌာနများမှ အောက်ပါအတိုင်း သဘောထား မှတ်ချက်ပြန်ကြားထားပါသည် -

(က) **ရန်ကုန်တိုင်းဒေသကြီးအစိုးရအဖွဲ့**မှ ရင်းနှီးမြှုပ်နှံမှုပြုလုပ်မည့် နေရာသည် နောင်ပြုလုပ်မည့် (သို့မဟုတ်) လက်ရှိမြို့ပြစီမံကိန်းကို ထိခိုက်နိုင်ခြင်း မရှိ

ပါကြောင်း၊ မြို့နယ်ဒေသ အလုပ်အကိုင်အခွင့်အလမ်းနှင့် ဒေသစီးပွားရေး ဖွံ့ဖြိုး တိုးတက်မှုအတွက် အထောက်အကူ ဖြစ်စေပါကြောင်း၊ အဆိုပြုမြေနေရာအား စက်ရုံအတွက် သုံးစွဲခြင်းအပေါ် ဒေသခံများက လူမှုရေး၊ စီးပွားရေး၊ သဘာဝ ပတ်ဝန်းကျင် ထိန်းသိမ်းမှုတို့အရ လက်ခံနိုင်ခြင်း ရှိပါကြောင်း၊ သဘာဝပတ် ဝန်းကျင်အား ထိခိုက်မှုမရှိစေရန် စီမံဆောင်ရွက်မည် ဖြစ်ပါကြောင်း၊ ကုမ္ပဏီ ၏ ရင်းနှီးမြှုပ်နှံမှု လုပ်ငန်းသစ် ဆောင်ရွက်မှုအား ခွင့်ပြုသင့်ပါကြောင်း သဘော ထား ပြန်ကြားထားပါသည်။ **နောက်ဆက်တွဲ(က)**

(ခ) **ပတ်ဝန်းကျင် ထိန်းသိမ်းရေးနှင့် သစ်တောရေးရာ ဝန်ကြီးဌာန**မှ အဆိုပြု လုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုရန် ကိစ္စနှင့်ပတ်သက်၍ အောက်ဖော်ပြပါ အချက် များအတိုင်း လိုက်နာဆောင်ရွက်ရန် လိုအပ်မည်ဖြစ်ပါကြောင်း သဘောထား မှတ်ချက် ပြန်ကြားထားပါသည် -

(၁) အဆိုပြုလုပ်ငန်းကြောင့် ဖြစ်ပေါ်လာနိုင်သည့် ပတ်ဝန်းကျင်၊ လူမှုရေးနှင့် ကျန်းမာရေးထိခိုက်ပျက်စီးမှုများကို ရှောင်ရှားနိုင်ရန်အတွက် လုပ်ငန်း လည်ပတ်ခြင်းနှင့် ထုတ်လုပ်ခြင်းအဆင့်ဆင့်တို့၏ စီမံကိန်းဆိုင်ရာ အချက် အလက်များ ပြည့်စုံစွာ ဖော်ပြပြီး လုပ်ငန်းဆောင်ရွက်ရာတွင် ပတ်ဝန်းကျင် ကို ထိခိုက်မှု အနည်းဆုံး ဖြစ်စေမည့် စက်ကိရိယာများနှင့် ကုန်ထုတ်လုပ် မှုများ အသုံးပြုဆောင်ရွက်ရန်၊

(၂) လုပ်ငန်းဆောင်ရွက်ခြင်းကြောင့် ဖြစ်ပေါ်လာနိုင်သည့် ပတ်ဝန်းကျင် လူမှုရေးနှင့် ကျန်းမာရေးကို ထိခိုက်ပျက်စီးမှုများ လျော့နည်းစေရန် အတွက် လုပ်ငန်းအကောင်အထည်မဖော်မီ ပတ်ဝန်းကျင်ဆိုင်ရာ ကနဦး လေ့လာခြင်း (IEE) လုပ်ငန်းကို ဆောင်ရွက်ရန်၊

(၃) အထက်ပါ လေ့လာဆန်းစစ်မှုရလဒ်များကို အခြေခံ၍ ပတ်ဝန်းကျင်နှင့် လူမှုရေးဆိုင်ရာ ထိခိုက်မှု အနည်းဆုံးဖြစ်စေသည့် လုပ်ငန်းဆောင်ရွက် မည့်အစီအစဉ်၊ စွန့်ပစ်ပစ္စည်း/ စွန့်ပစ်အရည်များ စီမံခန့်ခွဲမှုနှင့် စောင့် ကြည့်လေ့လာမည့် အစီအစဉ်၊ သုံးစွဲမည့် ရန်ပုံငွေစသည်တို့ ပါဝင်သည့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) ရေးဆွဲတင်ပြရန်နှင့် စီမံချက်ပါ အတိုင်း အကောင်အထည်ဖော်ဆောင်ရွက်ရန်၊

(၄) ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ ဥပဒေ၊ နည်းဥပဒေ၊ လုပ်ထုံးလုပ်နည်း များ၊ စည်းမျဉ်းစည်းကမ်းများနှင့်အညီ လိုက်နာအကောင်အထည်ဖော် ဆောင်ရွက်ရန်။ **ကုမ္ပဏီက Resource & Environment Myanmar Ltd. မှ ရေးဆွဲထားသော IEE နှင့် EMP အစီရင်ခံစာတို့ကိုတင်ပြထားပါသည်။**

နောက်ဆက်တွဲ(ခ)

(ဂ) **စက်မှုဝန်ကြီးဌာန**မှ အဆိုပြုလုပ်ငန်းသည် လျှပ်စစ်သွယ်တန်း အသုံးပြုမှုအား လျှပ်စစ်ဥပဒေနှင့်အညီ အသုံးမပြုမီ စစ်ဆေးဆောင်ရွက်ရန် လိုအပ်ကြောင်း၊ ပတ်ဝန်းကျင်ညစ်ညမ်းမှု မဖြစ်ပေါ်စေရေးအတွက် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဦးစီးဌာန၏ စိစစ်ချက်ဖြင့် စနစ်တကျဆောင်ရွက်ရန် လိုအပ်ကြောင်း၊ စက်ရုံ တည်ဆောက်ပြီးစီး၍ စက်စမ်းသပ်လည်ပတ်နိုင်ပါက စက်မှုမှတ်ပုံတင် လျှောက်ထားရန် လိုအပ်ကြောင်း၊ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်အန္တရာယ် ကင်းရှင်းရေးအတွက် စနစ်တကျ စီမံဆောင်ရွက်ထားရန်လိုကြောင်းနှင့် နိုင်ငံခြား ရင်းနှီးမြှုပ်နှံမှုဥပဒေ၊ ပုဂ္ဂလိက စက်မှုလုပ်ငန်းဥပဒေနှင့် တည်ဆဲဥပဒေ လုပ်ထုံးလုပ်နည်းများနှင့် ညီညွတ်ပါက ကန့်ကွက်ရန်မရှိကြောင်း သဘောထား ပြန်ကြားထားပါသည်။ **နောက်ဆက်တွဲ(ဂ)**

၁၁။ ငွေရေးကြေးရေး အထောက်အထားအဖြစ် Denso Industry Asia Co., Ltd. ၏ Financial Statement ၊ Denso Industry Co., Ltd. သည် The Bank of Yokohama Ltd. ၏ Shinyokohama Branch တွင် ၁-၂-၂၀၁၄ နေ့၌ ၁.၃၅၃ သန်း ရှိကြောင်း ထောက်ခံစာ မိတ္တူ၊ Financial Statement နှင့် ဒါရိုက်တာ အဖွဲ့ဝင်များ၏ Passport မိတ္တူများကို တင်ပြ ထားပါသည်။

၁၂။ **မီးဘေးကြိုတင်ကာကွယ်ရေးစီမံချက်** မီးဘေးကြိုတင်ကာကွယ်ရေးအတွက် မီးဘေး ကြိုတင်ကာကွယ်ရေးအရာရှိများ ထားရှိဆောင်ရွက်မည် ဖြစ်ကြောင်း၊ အဆောက်အဦလှေကား များနှင့် တံခါးပေါက်များတွင် မီးသတ်ပိုက်များ၊ မီးသတ်ဆေးဘူးများ ထားရှိမည် ဖြစ်ပါကြောင်း၊ ဆေးလိပ် သောက်ခြင်းကို တင်းကြပ်စွာ တားမြစ်ထားပါကြောင်း၊ မီးအချက်ပေးကိရိယာများ တပ်ဆင်ထားပါကြောင်း၊ ဝန်ထမ်းများကိုလည်း မီးသတ်ဦးစီးဌာနမှ ဖွင့်လှစ်သော သင်တန်းများသို့ တက်ရောက် စေမည် ဖြစ်ပါကြောင်း တင်ပြထားပါသည်။

၁၃။ Denso Industry Yangon Limited မှ စက်ရုံဝန်ထမ်းများ သက်သာချောင်ချိရေး နှင့် လုပ်ငန်းခွင် သာယာရေးစီစဉ်ထားရှိမှုများနှင့် ပတ်ဝန်းကျင်နှင့် လူမှုရေးဆိုင်ရာလုပ်ငန်းများ အတွက် နှစ်စဉ်အသားတင်အမြတ်ငွေ၏ ၁ %ကို အသုံးပြုခြင်းပါရှိသည့် Corporate Social Responsibility Plan တို့ကို တင်ပြထားပါသည်။

၁၄။ နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေပါ အခွန်ဆိုင်ရာ ကင်းလွတ်ခွင့်နှင့် သက်သာခွင့်များကို ခံစားခွင့်ပြုပါရန် တင်ပြထားပါသည်။

၁၅။ အဆိုပါလုပ်ငန်းသည် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှုကော်မရှင်မှ ၁/၂၀၁၃ ဖြင့် ထုတ်ပြန် ထားသည့် စီးပွားရေးလုပ်ငန်း အမျိုးအစားများတွင် ခွင့်မပြုသည့်လုပ်ငန်း၊ ဖက်စပ်စနစ်ဖြင့်သာ ဆောင်ရွက်ရမည့်လုပ်ငန်း၊ ကန့်သတ်ချက် တစ်ရပ်ရပ်ကို လိုက်နာဆောင်ရွက်ရမည့် လုပ်ငန်း စာရင်းတို့တွင် မပါဝင်သဖြင့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအရ ခွင့်ပြုနိုင်သော လုပ်ငန်းအမျိုး အစား ဖြစ်ပါသည်။

၁၇။ နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအရ ပုဂ္ဂလိကမြေတွင် ငှားရမ်းဆောင်ရွက်ခွင့်ပြုရန် ကိစ္စကို ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော် ပြည်ထောင်စု အစိုးရအဖွဲ့၏ ၂၀၁၄ ခုနှစ် ဇူလိုင်လ (၁၇) ရက်နေ့တွင် ကျင်းပပြုလုပ်သည့် အစည်းအဝေးအမှတ်စဉ် (၁၄/၂၀၁၄)မှ သဘောတူထားပါသည်။

စိစစ်တင်ပြချက်

၁၈။ ပြည်တွင်းမှ အနိမ်းဆုံးဝန်ထမ်းတစ်ဦး၏ လစာမှာ US$ ၇၀ ဖြစ်ကြောင်း တွေ့ရှိရပါသည်။

ဆုံးဖြတ်ရန်အချက်

၁၉။ Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်း ဒေသကြီးရှိ မြေ ၁.၆၁၀ ဧကအနက် ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) ၌ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်းနှင့် စပ်လျဉ်း၍ ခွင့်ပြုမိန့်ထုတ်ပေးရန် သဘောတူ-မတူ။

ဥက္ကဋ္ဌ(ကိုယ်စား)
(မြသူဇာ၊ တွဲဖက်အတွင်းရေးမှူး)

မိတ္တူ

ရုံးလက်ခံ

Denso (MIC Memo).docx

၆

ကုမ္ပဏီဒါရိုက်တာနှင့်အစုရှင်များ၏နေရပ်လိပ်စာစာရင်း

စဉ်	ကုမ္ပဏီအမည်	ဒါရိုက်တာ/အစုရှင်များ၏အမည်	ဒါရိုက်တာ/အစုရှင်များ၏ ဆက်သွယ်ရန်လိပ်စာ
၁။	Denso Industry Yangon Limited	(၁) Mr. Takashi MISHIMA Managing Director Japanese TZ 0468392	Flat 10, 15F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. Hongkong
		(၂) Mr. Kazubumi FUSE Director Japanese TH 4441171	2766-17, Izumi-Cho, Izumi-Ku, Yokohama-City, Kanagawa, Japan

၁။ ဆက်သွယ်ရမည့်တယ်လီဖုန်းနံပါတ်၊ ဖက်စ်နံပါတ် - ၀၉-၂၀၄၃၉၀၄

၂။ ဆက်သွယ်ရမည့် လိပ်စာအပြည့်အစုံ -

၃။ ဆက်သွယ်ရမည့်ပုဂ္ဂိုလ်အမည်၊ရာထူး - ဒေါ်စမ်းစမ်းရီ

၄။ ကုမ္ပဏီအနေဖြင့်ဆောင်ရွက်သည့်လုပ်ငန်းများ - လျှပ်စစ်ဆိုင်ရာ ပစ္စည်း အစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး)ထုတ်လုပ်ခြင်းနှင့်ရောင်းချခြင်းလုပ်ငန်း

၅။ ကုမ္ပဏီမှတ်ပုံတင်အမှတ်/နေ့စွဲ -

၆။ ကုမ္ပဏီမှတ်ပုံတင် သက်တမ်းကုန်ဆုံးသည့်နေ့စွဲ -

၇။ ဘဏ်အမည်နှင့်ဘဏ်စာရင်းအမှတ် -

ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်
အဆိုပြုချက် စိစစ်ရေးအဖွဲ့

၂၀၁၄ ခုနှစ်၊ မေလ (၂၂)ရက်နေ့ နံနက်(၉း၀၀)နာရီတွင် ရုံးအမှတ်(၃၂)၊ အမျိုးသား စီမံကိန်းနှင့် စီးပွားရေး ဖွံ့ဖြိုးတိုးတက်မှု ဝန်ကြီးဌာန၊ အစည်းအဝေးခန်းမ၌ ကျင်းပသည့် (၂၁/၂၀၁၄) ကြိမ်မြောက် အစည်းအဝေးမှတ်တမ်း

အစည်းအဝေးတက်ရောက်သူများ/ ကိုယ်စားတက်ရောက်သူများ

ဒေါက်တာကျော်ဆန်း
ညွှန်ကြားရေးမှူး
စီမံကိန်းစိစစ်ရေးနှင့် တိုးတက်မှုအစီရင်ခံရေးဦးစီးဌာန
အမျိုးသားစီမံကိန်းနှင့်စီးပွားရေးဖွံ့ဖြိုးတိုးတက်မှုဝန်ကြီးဌာန

ဦးမြတ်ထွန်းကျော်
ညွှန်ကြားရေးမှူး
ကုန်သွယ်ရေးညွှန်ကြားမှုဦးစီးဌာန
စီးပွားရေးနှင့်ကူးသန်းရောင်းဝယ်ရေးဝန်ကြီးဌာန

ဦးမြင့်နိုင်
ဒုတိယရုံးအဖွဲ့မှူး
ဝန်ကြီးရုံး
ဆောက်လုပ်ရေးဝန်ကြီးဌာန

ဦးသန်းဗိုလ်
ဒုတိယညွှန်ကြားရေးမှူး
ပြည်တွင်းအခွန်များဦးစီးဌာန
ဘဏ္ဍာရေးဝန်ကြီးဌာန

ဒေါ်သင်းသင်းစိုး
ဒုတိယညွှန်ကြားရေးမှူး
စက်မှုကြီးကြပ်ရေးနှင့် စစ်ဆေးရေး ဦးစီးဌာန
စက်မှုဝန်ကြီးဌာန

ဒေါ်နန်းဟန်နု
လက်ထောက်ညွှန်ကြားရေးမှူး
လျှပ်စစ်စွမ်းအားဦးစီးဌာန
လျှပ်စစ်စွမ်းအားဝန်ကြီးဌာန

ဦးစောထွန်းဦး
လက်ထောက်ညွှန်ကြားရေးမှူး
အကောက်ခွန်ဦးစီးဌာန
ဘဏ္ဍာရေးဝန်ကြီးဌာန

ဦးအောင်အောင်လေး
လက်ထောက်ညွှန်ကြားရေးမှူး
ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန
ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးနှင့် သစ်တောရေးရာဝန်ကြီးဌာန

အထူးဖိတ်ကြားခြင်းဖြင့် တက်ရောက်သူများ

ဒေါ်ချိုချိုဝင်း
ဒုတိယညွှန်ကြားရေးမှူးချုပ်
ရင်းနှီးမြှုပ်နှံမှုနှင့် ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန

ဒေါ်မြသူဇာ
အဖွဲ့ဝင်
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

ဒေါ်စီစီဆက်
လက်ထောက်ညွှန်ကြားရေးမှူး
စက္ကူနှင့်အိမ်သုံးပစ္စည်းလုပ်ငန်း
စက်မှုဝန်ကြီးဌာန

ဦးကံချွန်
ညွှန်ကြားရေးမှူး
အမှတ်(၁)အကြီးစား စက်မှုလုပ်ငန်း
စက်မှုဝန်ကြီးဌာန

အစည်းအဝေးမတက်ရောက်နိုင်သူများ (တာဝန်)

ဦးအောင်နိုင်ဦး
ညွှန်ကြားရေးမှူးချုပ်
ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန
အမျိုးသားစီမံကိန်းနှင့်စီးပွားရေးဖွံ့ဖြိုးတိုးတက်မှုဝန်ကြီးဌာန

ဒုတိယညွှန်ကြားရေးမှူးချုပ်
ရေအားလျှပ်စစ် စီမံရေး ဦးစီးဌာန
လျှပ်စစ်စွမ်းအား ဝန်ကြီးဌာန

ဦးအောင်ဌေးဝင်း
ညွှန်ကြားရေးမှူး
အလုပ်သမားညွှန်ကြားရေးဦးစီးဌာန
အလုပ်သမား၊အလုပ်အကိုင်နှင့် လူမှုဖူလုံရေးဝန်ကြီးဌာန

ရည်ရွယ်ချက်

၁။ ရင်းနှီးမြှုပ်နှံမှု အခွင့်အလမ်းများ တိုးတက်စေရန်အတွက် ရင်းနှီးမြှုပ်နှံသူများမှ သိရှိလိုသည့် အချက်များအား ရှင်းလင်းဆွေးနွေး လမ်းညွှန်ပေးရန်နှင့် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင် အစည်းအဝေးသို့ မတင်ပြမီ လိုအပ်ချက်များ ပြည့်စုံစေရန် ညှိနှိုင်းဆွေးနွေးရန်။

ဆွေးနွေးချက်များ

၂။ အဆိုပြုချက်စိစစ်ရေးအဖွဲ့၏ (၂၀/၂၀၁၃) ကြိမ်မြောက် အစည်းအဝေး မှတ်တမ်းအား အတည်ပြု ပေးပါရန် တင်ပြခြင်း

ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန၊ ဒုတိယညွှန်ကြားရေးမှူး ဒေါ်ဆင့်ဆင့်သန်းမှ အဆိုပြုချက် စိစစ်ရေးအဖွဲ့၏ (၂၀/၂၀၁၄) ကြိမ်မြောက် အစည်းအဝေး မှတ်တမ်းအား အတည်ပြု ပေးနိုင်ပါရန်တင်ပြရာ အစည်းအဝေးမှ အတည်ပြုကြောင်း ဆုံးဖြတ်ပါသည်။

၃။ ဖက်စပ်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Toyotsu Paragon Co., Ltd. တည်ထောင်၍ ဆပ်ပြာ ချက်ရန် အခြေခံ ကုန်ကြမ်းဖြစ်သော LAS နှင့် DBSA ကို မြန်မာနိုင်ငံတွင် ထုတ်လုပ်၍ ပြည်တွင်း၌ ရောင်းချခြင်း၊ ပြည်ပသို့ တင်ပို့ရောင်းချခြင်း လုပ်ငန်းများ ဆောင်ရွက်ခွင့်ပြုပါရန် အဆိုပြု တင်ပြလာ ခြင်းကိစ္စ

ရင်းနှီးမြှုပ်နှံမှုနှင့် ကုမ္ပဏီများညွှန်ကြားမှု ဦးစီးဌာန၊ ဒုတိယညွှန်ကြားရေးမှူး ဒေါ်ဆင့်ဆင့်သန်းမှ အမှာစာကို ရှင်းလင်းတင်ပြပါသည်။

ကုမ္ပဏီ၏ မန်နေဂျင်းဒါရိုက်တာ Mr. Shinichi Hondo မှ အဆိုပြုလုပ်ငန်းသည် ဂျပန်နိုင်ငံမှ Toyota Tsusho Corporation နှင့် မြန်မာနိုင်ငံမှ Royal Paragon Co., Ltd. တို့သည် အစုရှယ်ယာများ ထည့်ဝင်ကာ ဖက်စပ်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် မြန်မာနိုင်ငံတွင် Toyotsu Paragon Co., Ltd. တည်ထောင်၍ ဆပ်ပြာထုတ်လုပ်ရာတွင် လိုအပ်သောကုန်ကြမ်းပစ္စည်းများ ထုတ်လုပ်မည့်လုပ်ငန်း ဖြစ်ကြောင်း၊ ထွက်ရှိသော ကုန်ကြမ်းပစ္စည်းများကို ပြည်တွင်းဈေးကွက်အတွက် အဓိကရည်ရွယ်၍ ထုတ်လုပ်ပြီး အာဆီယံနိုင်ငံများ၊ ဂျပန်နိုင်ငံနှင့် Middle East နိုင်ငံများသို့လည်း တင်ပို့မည်ဖြစ် ကြောင်း၊ EIA Report အား မကြာမီတင်ပြမည်ဖြစ်ကြောင်း၊ Royal Paragon Co., Ltd. သည် OKI ဆပ်ပြာ ထုတ်လုပ်သော United Pacific Co., Ltd. ၏ မိတ်ဖက်ကုမ္ပဏီဖြစ်ကြောင်း၊ တစ်နေ့လျှင် ၈၅ မက်ထရစ်တန် ထုတ်လုပ်မည် ဖြစ်ကြောင်း၊ ဆပ်ပြာသည် လူမှုဘဝတွင် နေ့စဉ်လိုအပ်ချက်ဖြစ်ကြောင်း၊ မိမိတို့ထုတ်လုပ်မည့် ကုန်ကြမ်း မှာ ကုန်ချောထွက်ရှိရန် ၇၅ % အထိ အရည်အသွေးရှိကြောင်း၊ မိမိတို့ကုမ္ပဏီသည် နိုင်ငံပေါင်း ၇ နိုင်ငံတွင် ရင်းနှီးမြှုပ်နှံမှု ပြုလုပ်ထားပြီး Toyota Corporation ၏ လုပ်ငန်းခွဲတစ်ခု ဖြစ်ပါကြောင်း ရှင်းလင်းတင်ပြပါသည်။

စက္ကူနှင့်အိမ်သုံးပစ္စည်းလုပ်ငန်း၊ လက်ထောက်ညွှန်ကြားရေးမှူး၊ဒေါ်စီစီဆက်မှ Caustic Soda ကို မည်သည့်အစီအစဉ်ဖြင့် ဝယ်ယူပြီး ရာခိုင်နှုန်းမည်မျှ သုံးစွဲမည်ကို သိလိုကြောင်းနှင့် ခာတ်ပြယ်ရန် မည်ကဲ့သို့ ဆောင်ရွက်မည်ကို သိလိုကြောင်း မေးမြန်းဆွေးနွေးပါသည်။

စီမံကိန်းစိစစ်ရေးနှင့် တိုးတက်မှုအစီရင်ခံရေးဦးစီးဌာန၊ ညွှန်ကြားရေးမှူး ဒေါက်တာကျော်ဆန်းမှ IRR တွက်ချက်မှုမှာဌာနနှင့် ကုမ္ပဏီတွက်ချက်မှု မကိုက်ညီကြောင်း ဆွေးနွေးပြောကြားပါသည်။

ကုန်သွယ်ရေးညွှန်ကြားမှုဦးစီးဌာန၊ ညွှန်ကြားရေးမှူး၊ ဦးမြတ်ထွန်းကျော်မှ ထုတ်လုပ်မည့် ကုန်ပစ္စည်းအတွက် ကုန်အမှတ်တံဆိပ် ရှိ-မရှိ သိလိုကြောင်း မေးမြန်းဆွေးနွေးပါသည်။

ဆောက်လုပ်ရေးဝန်ကြီးဌာန၊ ဒုတိယရုံးအဖွဲ့မှူး၊ ဦးမြင့်နိုင်မှ တင်ပြသည့် မြေဂရန်များမှာ လုပ်ငန်းဆောင်ရွက်နိုင်သည့် ဂရန်များဖြစ်ကြောင်း၊ မြေငှားရမ်းခမှာ တိုင်းဒေသကြီးအစိုးရအဖွဲ့၏ သတ်မှတ်ထားသော ဈေးနှုန်းနှင့် အနည်းငယ် ကွာဟနေကြောင်း၊ မြေငှားရမ်းသက်တမ်းမှာ ၅၇ နှစ်ဖြစ်ပြီး ငှားရမ်းခများအား ၅၇နှစ်အတွက် တွက်ချက်ထားသည်ကို တွေ့ရှိရကြောင်း၊ ကုန်ကြမ်းပစ္စည်းများအား ပိုက်လိုင်းဖြင့် သွယ်တန်းရယူရာတွင် လိုအပ်သည့် တည်ဆောက်မည့် Jetty ဆောက်လုပ်မည့်နေရာသည် မြန်မာ့ဆိပ်ကမ်း အာဏာပိုင်နှင့် သက်ဆိုင်သည့်အတွက် ခွင့်ပြုချက်ရယူရန်လိုကြောင်း၊ Jetty အား စီးပွားဖြစ်အသုံးပြုမည်မဟုတ်ဘဲ တစ်ဦးတည်းသာအသုံးပြုမည်ကိုတွေ့ရှိရကြောင်း၊ ပို့ဆောင်ရေးဝန်ကြီးဌာနသို့တင်ပြရန်လည်းလိုကြောင်း၊ စက်ရုံနှင့် ဆိပ်ကမ်းအကြားတွင် အများပြည်သူအသုံးပြုမည့် လမ်းရှိနေသောကြောင့် ပိုက်လိုင်းသွယ်တန်းမည့် အစီအစဉ်ကို သိလိုကြောင်း၊ အဆိုပါမြေသည် စက်မှုဇုန် စီမံခန့်ခွဲမှုကော်မတီနှင့် တိုင်းဒေသကြီးအစိုးရအဖွဲ့မှ စီမံခန့်ခွဲနိုင်ခြင်း မရှိကြောင်းနှင့် နိုင်ငံတော် အစိုးရကသာ စီမံခွင့်ရှိသောမြေဖြစ်ကြောင်း ဆွေးနွေးပြောကြားပါသည်။

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်အဖွဲ့ဝင်၊ ဒေါ်မြသူဇာမှ မြေငှားရမ်းခနှုန်းထားများကို ၅ နှစ်လျှင် ၁ ကြိမ် ပြန်လည်ညှိနှိုင်းသတ်မှတ်လေ့ရှိကြောင်း၊ မြေငှားရမ်းခနှုန်းနည်းသည့်အပြင် ယခုကဲ့သို့ တစ်ပေါင်းတည်း ငှားရမ်းခ ပေးချေမှုအား ရန်ကုန်တိုင်းဒေသကြီးအစိုးရအဖွဲ့မှ မည်သို့ သဘောထားမှတ်ချက်ပြန်လာမည်ကို မသိရသေးကြောင်း၊ မြေကွက်အားလုံးကို အသုံးမပြုသေးပါက covered area / uncovered area ဖြင့်ခွဲကာ မြေငှားရမ်းခကို ပြန်လည်တွက်ချက်ပေးသင့်ကြောင်း၊ ကုန်ချောပစ္စည်းများအား သီလဝါဆိပ်ကမ်းသို့ မည်သို့သယ်ယူပို့ဆောင်မည်ကို သိလိုကြောင်း နှင့် Layout Plan ကို အတိုင်းအတာ အတိအကျဖော်ပြပြီး အသေးစိတ် တင်ပြရန်လိုကြောင်း ဆွေးနွေး ပြောကြားပါသည်။

အကောက်ခွန်ဦးစီးဌာန၊ လက်ထောက်ညွှန်ကြားရေးမှူး၊ ဦးစောထွန်းဦးမှ Jetty တည်ဆောက်ရာတွင် အကောက်ခွန်ဦးစီးဌာန၏ ခွင့်ပြုချက် ရယူရန်လိုပါကြောင်း၊ မြန်မာနိုင်ငံ အင်ဂျင်နီယာ အသင်းသို့ သဘောထားမှတ်ချက် တောင်းရမည်ဖြစ်ပါကြောင်း၊ တံတားတည်ဆောက်မှု ရှိ-မရှိနှင့် တံတားအရွယ်အစား မည်မျှရှိပြီး မည်သို့အသုံးပြုမည်ကို သိလိုပါကြောင်း ဆွေးနွေးပြောကြားပါသည်။

ပြည်တွင်းအခွန်များဦးစီးဌာန၊ ဒုတိယညွှန်ကြားရေးမှူး၊ ဦးသန်းဗိုလ်မှ Royal Paragon Co., Ltd. ၏ ၂၀၁၃-၂၀၁၄ ဘဏ္ဍာနှစ်အတွက် အခွန်စည်းကြပ်မှု ထည့်သွင်းဖော်ပြရန်လိုကြောင်း၊ မြေပိုင်ရှင်အမည် ပြောင်းလဲထားသည့်အတွက် အမည်ပြောင်းထားသော ဂရန်၏ တံဆိပ်ခေါင်းခွန် ထမ်းဆောင်ထားသော စာချုပ်တင်ပြရန်လိုကြောင်း ဆွေးနွေးပြောကြားပါသည်။

ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ လက်ထောက်ညွှန်ကြားရေးမှူး၊ ဦးအောင်အောင်လေးမှ ESIA ပြုလုပ်မည်ဟု ဖော်ပြထားကြောင်း၊ လုပ်ထုံးလုပ်နည်း အစီအစဉ်များကို အသေးစိတ်တင်ပြ ရန်လိုကြောင်း၊ ကုန်ကြမ်းပစ္စည်းများကို မြစ်ဆိပ်မှ သယ်ယူရာတွင် Safety Plan ကို မည်သို့ပြုလုပ် မည်ဖြစ်သည်ကို သေချာစွာ တင်ရန်လိုကြောင်းနှင့် Emergency Response Plan ပါဝင်အောင် ရေးဆွဲရန်လိုကြောင်း ဆွေးနွေးပြောကြားပါသည်။

လျှပ်စစ်စွမ်းအားဦးစီးဌာန၊ လက်ထောက်ညွှန်ကြားရေးမှူး၊ ဒေါ်နန်းဟန်နုမှ လျှပ်စစ်သုံးစွဲမည့် ယူနစ်များအား သေချာစွာဖော်ပြရန်လိုကြောင်း၊ Transformer လျှောက်ထားမည်ဆိုပါက ကော်မရှင်မှ ခွင့်ပြုမိန့်ရရှိပြီးပါက ရန်ကုန်မြို့ OSS ရုံးတွင် လျှောက်ထားနိုင်ပါကြောင်း၊ ကြိုတင်လျှောက်ထား လိုပါက သက်ဆိုင်ရာမြို့နယ်ရုံးများတွင် လျှောက်ထားနိုင်ပါကြောင်း ဆွေးနွေးပြောကြားပါသည်။

ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန၊ ညွှန်ကြားရေးမှူး၊ ဒေါ်စန်းစန်းမြင့်မှ အစည်း အဝေး ဆွေးနွေးချက်များနှင့်အညီ အစီအစဉ်အားလုံး အသေးစိတ်ရမှသာ သဘောထား မှတ်ချက်များ တောင်းခံရမည်ဖြစ်ကြောင်း၊ မြန်မာနိုင်ငံဘက်မှ ၄၀% သာပါဝင်ပြီး ကမကထပြုသူအဖြစ် တာဝန်ယူ ခြင်းနှင့်ပတ်သက်ပြီး သိရှိလိုကြောင်း၊ Ageing Vessel သည် မည်သည့်ပစ္စည်းဖြစ်သည်ကို သိရှိလို ကြောင်း၊ စက်ပစ္စည်းနှင့် ကုန်ကြမ်းပစ္စည်းများအား ပြည်တွင်း/ပြည်ပ ဝယ်ယူမှုကို ခွဲခြားဖော်ပြရန် လိုကြောင်း၊ မြေငှားရမ်းခနှုန်းထားကို ပြန်လည်စိစစ်ပေးရန်လိုကြောင်း၊ Jetty အတွက် ပို့ဆောင်ရေး ဝန်ကြီးဌာနသို့ လျှောက်ထားသည့်စာ မိတ္တူပေးရန်လိုကြောင်း၊ အဆိုပြုလုပ်ငန်း လက်ခံ-မခံကို အဆိုပြုလွှာ အသေးစိတ် ပြန်လည်ပြင်ဆင်တင်ပြသည့်အခါ အကြောင်းကြားမည် ဖြစ်ကြောင်း ဆွေးနွေး ပြောကြားပါသည်။

ကုမ္ပဏီ၏ တာဝန်ရှိသူများမှ မိမိတို့ထုတ်လုပ်မည့် ပစ္စည်းတွင် Caustic soda ၄၀% ပါဝင်မည် ဖြစ်ပြီး Stabilizer အသေးစား အသုံးပြုမည်ဖြစ်ကြောင်း၊ ကုန်ကြမ်းများ ဖြစ်သည့်အတွက် အမှတ် တံဆိပ်ကို လုပ်ငန်းအပ်နှံမည့် ကုမ္ပဏီအမည်ဖြင့်သာ အသုံးပြုရန် အစီအစဉ်ရှိကြောင်း၊ မြေကွက် ၂ကွက်တွင် လက်ရှိ မြေကွက် ၁ ကွက်ကိုသာအသုံးပြုမည်ဖြစ်ကြောင်း၊ မြေငှားခကို သီးသန့်ရယူမည် ဖြစ်ပြီး ရင်းနှီးမြှုပ်နှံမှုတွင် ထည့်သွင်းထားခြင်းမဟုတ်ကြောင်း၊ မြေမှာ မြေရိုင်းဖြစ်သည့်အတွက် ပြုပြင်ရန်လိုကြောင်း၊ ၅၇ နှစ်အတွက် မြေငှားရမ်းခအား မြေပိုင်ရှင်မှ တစ်ကြိမ်တည်းရယူထားမည် ဖြစ်၍ တစ်နှစ်ဈေးနှုန်းမှာ နည်းရခြင်းဖြစ်ကြောင်း၊ ယခုအခါ မြေကွက် ၁ ကွက်ကိုသာ အသုံးပြုမည် ဖြစ်ပြီး မြေကွက် ၂ကွက် ကြိုတင်ငှားထားခြင်းဖြစ်ကြောင်း၊ ကုန်ကြမ်းကို ရေလမ်းကြောင်းမှ တင်သွင်း ပြီး သင်္ဘောမှ ပိုက်လိုင်းနှင့်စက်ရုံသို့ တင်သွင်းမည်ဖြစ်ကြောင်း၊ ပို့ဆောင်ရေးတွင် လိုင်စင် လျှောက်

ထားကြောင်း၊ မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်နှင့် ရေအရင်းအမြစ်အသုံးချရေးဦးစီးဌာန ၂ခုလုံး နှင့် သက်ဆိုင်ကြောင်း၊ သီလဝါဆိပ်ကမ်းမှ ကုန်ကြမ်းသယ်ယူပို့ဆောင်ရေးမှာ ၁လလျှင် ၁ကြိမ်သာ ပြုလုပ်မည်ဖြစ်ကြောင်း၊ ကုန်ကြမ်းမှာ အရည်များဖြစ်ပြီး ၁ ကြိမ်လျှင် တန် ၁၀၀၀ သယ်ယူမည် ဖြစ်ကြောင်း၊ ပြည်ပသို့တင်ပို့ရာတွင် ၂၀၀ လီတာဆံ့ ပလတ်စတစ် အပြာရောင်ပုံးများအား ကုန်းလမ်းမှ ကားဖြင့် သယ်ယူမည်ဖြစ်ကြောင်း၊ သင်္ဘောကပ်မည့် ဆိပ်ခံတံတားသည် မိမိတို့ကုမ္ပဏီအတွက်သာ အသုံးပြုမည်ဖြစ်ပြီး အခြားသူများကို အသုံးပြုခွင့်ပေးမည် မဟုတ်ကြောင်း၊ အများပြည်သူအသုံးပြုမည့် လမ်းကို အနှောက်အယှက် မဖြစ်စေရန်အတွက် ပိုက်လိုင်းအား လမ်းအောက် ၇ ပေ အနက်မှသွင်း၍ ဆောင်ရွက်မည်ဖြစ်ကြောင်း၊ လမ်းမြေမှာ စက်မှုဇုန်မှ အသုံးမပြုသော မြေဖြစ်ပြီး နောင်တွင်လည်း အသုံးပြုမည်မဟုတ်ကြောင်း၊ ဇုန်ကော်မတီက ခွင့်ပြုချက်ရလျှင် အဆိုပြုလွှာတင်၍ ရသည်ဟု ယူဆသည့်အတွက် အဆိုပြုလွှာ တင်ပြခြင်းဖြစ်ကြောင်း၊ တံတားအား ပိုက်လိုင်းတင်သာရုံ အရွယ်သာ ဆောက်လုပ်မည်ဖြစ်ကြောင်း၊ ဆောက်လုပ်ရေးကုမ္ပဏီသို့ အပ်နှံထားသည့်အတွက် အဆိုပါ ကုမ္ပဏီမှ တာဝန်ယူဆောင်ရွက်မည်ဖြစ်ကြောင်း၊ Royal Paragon Co., Ltd. ၏ ၂၀၁၃-၂၀၁၄ ဘဏ္ဍာနှစ်အတွက် အခွန်စည်းကြပ်မှုအား ပြည်တွင်းအခွန်ရုံးတွင် တင်ထားကြောင်း၊ တံဆိပ်ခေါင်းခွန် ထမ်းဆောင်ထားသော စာချုပ်အား တင်ပြမည်ဖြစ်ကြောင်းနှင့် မိမိတို့၏ ကုန်ပစ္စည်းများအား အာဆီယံ နိုင်ငံများသို့ တင်ပို့မည်ဖြစ်ပြီး အထူးသဖြင့် မိမိတို့ကုမ္ပဏီသည် ဗီယက်နမ်နိုင်ငံတွင်လည်း တည်ထောင်ထားသည့်အတွက် ဗီယက်နမ်နိုင်ငံမှ ကုန်ကြမ်းလိုအပ်သောအခါ ပို့ပေးမည်ဖြစ်ကြောင်း ရှင်းလင်းပြောကြားပါသည်။

အစည်းအဝေးမှ Toyotsu Paragon Co., Ltd. တည်ထောင်၍ ဆပ်ပြာချက်ရန် အခြေခံကုန်ကြမ်းဖြစ်သော LAS နှင့် DBSA ကို မြန်မာနိုင်ငံတွင် ထုတ်လုပ်၍ ပြည်တွင်း၌ ရောင်းချခြင်း၊ ပြည်ပသို့ တင်ပို့ရောင်းချခြင်းလုပ်ငန်းများ ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြခြင်းကိစ္စအား အောက်ပါအချက်များ ပြည့်စုံစွာ ဆောင်ရွက်ပြီးမှသာ အဆိုပြုလွှာ ပြန်လည်တင်ပြရန် ဆုံးဖြတ်ခဲ့ပါသည်-

(က) IRR တွက်ချက်မှုအား ပြန်လည် စိစစ်ရန်။

(ခ) မြေငှားရမ်းခနှုန်းထားများအား ပြန်လည်စိစစ်ရန်။

(ဂ) Jetty ဟူ၍ သုံးနှုန်းထားမှုအား ပြင်ပေးရန်။

(ဃ) Layout Plan ကို အတိုင်းအတာ အတိအကျဖော်ပြပြီး အသေးစိတ် တင်ပြရန်။

(င) Jetty တည်ဆောက်ရာတွင် အကောက်ခွန်ဦးစီးဌာန၊ မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်နှင့် ရေအရင်း အမြစ်အသုံးချမှု ဦးစီးဌာနသို့လည်း ခွင့်ပြုချက်ရယူရန်။

(စ) ESIA Report ရေးဆွဲရာတွင် Emergency Response Plan အား ပါအောင်ရေးဆွဲရန်။

(ဆ) စက်ပစ္စည်းနှင့် ကုန်ကြမ်းပစ္စည်းများအား ပြည်တွင်း/ပြည်ပ ဝယ်ယူမှုအား ခွဲခြားဖော်ပြရန်။

၉

မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၊ အဖွဲ့ဝင် ဒေါ်မြသူဇာမှ လုပ်ငန်းအမည်အား ဆောင်ရွက်မည့် လုပ်ငန်းများနှင့် ဆီလျော်မှုရှိစေရန် "Manufacturing and Marketing of Electric Wire Harness" ဟု ပြင်ဆင်သင့်ကြောင်း ဆွေးနွေးပြောကြားပါသည်။

ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန၊ ညွှန်ကြားရေးမှူးဒေါ်စန်းစန်းမြင့် မှ ဝန်ထမ်းများ၏ ကျန်းမာရေးအတွက် ကာကွယ်ရေးလုပ်ငန်းများ သေချာစီစဉ်ထားရန်လိုအပ်ကြောင်း၊ ကုန်ကြမ်းများ တင်သွင်းသည့်အခါ တည်ဆောက်ရေးကာလ ၃ နှစ်အတွင်းသာ အခွန်ကင်းလွတ်ခွင့် ရမည်ဖြစ်ကြောင်း၊ မီးဘေးကာကွယ်ရေး အစီအစဉ်ကိုသိရှိလိုကြောင်း၊ CSR Plan နှင့် အရှုံးအမြတ်စာရင်းတွင် CSR ရာခိုင်နှုန်းအား ဖော်ပြရန်လိုကြောင်းနှင့် ဝန်ထမ်းလစာစာရင်းကို စနစ်တကျ ရေးဆွဲတင်ပြရန် လိုအပ်ကြောင်း ဆွေးနွေးပြောကြားပါသည်။

မန်နေဂျင်းဒါရိုက်တာဖြစ်သူ Mr. Takashi Mishima Assembly နှင့် စက်ပစ္စည်းများကို ထုတ်လုပ်မည်ဖြစ်ကြောင်း၊ Casting Machine မှာ ဝါယာကြိုးများကိုဖြတ်ပြီးအပေါ်မှ ပလပ်စတစ်အလွှာကို အလိုအလျှောက်ခွာသော စက်ဖြစ်ကြောင်း၊ စက်ပစ္စည်း ၃၀ % မှာ အသုံးပြုနေဆဲ စက်များဖြစ်ပြီး စက်အဟောင်းများမဟုတ်ကြောင်း၊ တစ်စုံတစ်ခုပျက်စီးပါက ပြည်ပ Techanician အဖွဲ့မှ လာရောက်ပြင်ဆင်ပေးမည်ဖြစ်ကြောင်း၊ ၇၀%မှာ အသစ်များဖြစ်ကြောင်း၊ ခဲအဆိပ်သင့်ခြင်း မဖြစ်ရအောင် ဝန်ထမ်းများအတွက် လက်အိတ်နှင့် နှာခေါင်းစည်းများ စီစဉ်ပေးမည်ဖြစ်ကြောင်း၊ မိမိတို့၏ ဈေးကွက်မှာ ယခုအခါတွင် မြန်မာပြည်တွင်မရှိ၍ ပြည်ပသို့ သာတင်ပို့မည်ဖြစ်ကြောင်း၊ နောင်တစ်ချိန်တွင် ဈေးကွက်ရှိလာပါက ပြည်တွင်းတွင် ရောင်းချမည်ဖြစ်ကြောင်း၊ မီးဘေးကာကွယ်ရေးအတွက် ရေကန်များတည်ဆောက်ထားရှိမည်ဖြစ်ကြောင်း၊ တစ်စုံတစ်ခုပျက်စီးပါက ပြည်ပမှ Techanician အဖွဲ့မှ လာရောက်ပြင်ဆင်ပေးမည်ဖြစ်ကြောင်း ရှင်းလင်းတင်ပြပါသည်။

အစည်းအဝေးမှ ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်းကိစ္စအား အောက်ပါအတိုင်း ဆုံးဖြတ်ပါသည်-

(က) ကနဦးပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းလုပ်ငန်း (IEE) နှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) ဆောင်ရွက်ရန်။

(ခ) စက်ရုံတည်ဆောက်မည့်မြေ အကျယ်အဝန်း အတိအကျဖော်ပြ၍ မြေငှားခနှုန်းကို ပြန်လည်စိစစ်ရန်။

(ဂ) လုပ်ငန်းအမျိုးအစားအား ဆောင်ရွက်မည့် လုပ်ငန်းများနှင့် ဆီလျော်မှုရှိစေရန် "Manufacturing and Marketing of Electric Wire Harness" ဟု ပြင်ဆင်ရန်။

(ဃ) CSR Plan နှင့် အရှုံးအမြတ်စာရင်းတွင် CSR ရာခိုင်နှုန်းကို ထည့်သွင်းဖော်ပြရန်။

(င) ဝန်ထမ်းလစာစာရင်းကို စနစ်တကျ ရေးဆွဲတင်ပြရန်။

(စ) သဘောထားများစုံလင်ပြီး တွက်ချက်မှုများ ပြင်ဆင်ပြီးပါက ကော်မရှင် အစည်းအဝေးသို့ တင်ပြရန်။

၅။ ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Myan SEEs Ltd. တည်ထောင်၍ CMP စနစ်ဖြင့် အထည်နှင့်လက်အိတ်မျိုးစုံချုပ်လုပ်ခြင်းလုပ်ငန်းဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်းကိစ္စ

ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန၊ ဒုတိယညွှန်ကြားရေးမှူး ဒေါ်ဆင့်ဆင့်သန်းမှ အမှာစာကို ရှင်းလင်းတင်ပြပါသည်။

ကုမ္ပဏီ၏ မန်နေဂျာ Mr. Jun Yup Lee မှ အဆိုပြုလုပ်ငန်းကို Myan SEEs Ltd. အမည်ဖြင့် CMP စနစ်ဖြင့် အထည်နှင့်လက်အိတ်မျိုးစုံ ချုပ်လုပ်ခြင်းလုပ်ငန်းဆောင်ရွက်မည် ဖြစ်ကြောင်းနှင့် မိမိတို့၏မိခင်ကုမ္ပဏီဖြစ်သော SEES GLOBAL INC. သည် တရုတ်နှင့်ဗီယက်နမ် နိုင်ငံများတွင် စက်ရုံများရှိကြောင်း ရှင်းလင်းတင်ပြပါသည်။

ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန၊ ဒုတိယညွှန်ကြားရေးမှူးချုပ်၊ ဒေါ်ချိုချိုဝင်း မှ မြေငှားစာချုပ်ကို ပဲခူးတိုင်းဒေသကြီးအစိုးရအဖွဲ့နှင့် မည်သည့်အချိန်တွင် လက်မှတ်ရေးထိုးမည်ကို သိရှိလိုကြောင်း၊ မြေငှားစာချုပ် လက်မှတ်ရေးထိုးရာတွင် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ ခွင့်ပြုမိန့်ရရှိပြီးမှ Myan SEEs Ltd. နှင့်လက်မှတ်ရေးထိုးရမည်ဖြစ်သောကြောင့် ခွင့်ပြုမိန့်မရရှိသေးမီ လက်မှတ်ရေးထိုးလျှင် ကိုရီးယားနိုင်ငံရှိမိခင်ကုမ္ပဏီနှင့် လက်မှတ်ရေးထိုးရမည် ဖြစ်ပါကြောင်းနှင့် ထုတ်လုပ်မည့် ပစ္စည်းများကို သိရှိလိုကြောင်း ဆွေးနွေးပြောကြားပါသည်။

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၊ အဖွဲ့ဝင်၊ ဒေါ်မြသူဇာမှ လုပ်ငန်းအမျိုးအစားအား ဆောင်ရွက်မည့် လုပ်ငန်းများနှင့် ဆီလျော်မှုရှိစေရန် "Manufacturing of Safety Gloves and Garment on CMP Basis" ဟု ပြင်ဆင်သင့်ကြောင်း၊ လုပ်ငန်းမှထွက်ရှိမည့် စွန့်ပစ်ပစ္စည်းများကို မည်ကဲ့သို့စီမံမည်ကို သိလိုကြောင်း ဆွေးနွေးပြောကြားပါသည်။

ရင်းနှီးမြှုပ်နှံမှုနှင့် ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန၊ ညွှန်ကြားရေးမှူး ဒေါ်စန်းစန်းမြင့် မှ Gloves and Garment ဟု ဖော်ပြထားသည့်အတွက် အထည်နှင့်လက်အိတ် နှစ်မျိုးစလုံး ထုတ်လုပ်ခြင်း ဟုတ်-မဟုတ် သိရှိလိုကြောင်း၊ အဆိုပြုလွှာတွင် ထုတ်လုပ်မည့်ပစ္စည်းပုံများကို သေချာစွာ ဖော်ပြရန်လိုကြောင်း၊ လူမှုပတ်ဝန်းကျင် အကျိုးပြုလုပ်ငန်းများအတွက် မည်သည့်နေရာများတွင် အသုံးပြုမည်ကို သိလိုပါကြောင်းနှင့် CSR ရာခိုင်နှုန်း နှင့် CSR Plan ကို ထည့်သွင်းဖော်ပြရန် လိုကြောင်း ဆွေးနွေး ပြောကြားပါသည်။

ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာနမှ လက်ထောက်ညွှန်ကြားရေးမှူး၊ ဦးအောင်အောင်လေး မှ ပတ်ဝန်းကျင်ထိခိုက်စေနိုင်မည့် ကုန်ကြမ်းပစ္စည်းများ သုံးစွဲခြင်းနှင့် စက်ရုံမှထွက်ရှိမည့် စွန့်ပစ် အရည်များကြောင့် ပတ်ဝန်းကျင်ညစ်ညမ်းမှု ဖြစ်ပေါ်စေနိုင်သောကြောင့် ကနဦးပတ်ဝန်းကျင် ထိခိုက်မှု

ဆန်းစစ်ခြင်းလုပ်ငန်း(IEE)နှင့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) ဆောင်ရွက်ရန် လိုအပ်မည်ဖြစ်ပြီး (IEE)အစီရင်ခံစာပေါ် မူတည်၍ လိုအပ်ပါက(EIA) ပြုလုပ်ရန်လိုအပ်ကြောင်း ဆွေးနွေးပြောကြားပါသည်။

ကုမ္ပဏီ၏ မန်နေဂျာ Mr. Jun Yup Lee မှ အထည်နှင့်လက်အိတ် နှစ်မျိုးစလုံး ထုတ်လုပ်မည်ဖြစ်ပါကြောင်းနှင့် စွန့်ပစ်ပစ္စည်းများကို မြို့တော်စည်ပင်သာယာရေး ကော်မတီနှင့် ဆက်သွယ်ဆောင်ရွက်မည်ဖြစ်ကြောင်း ရှင်းလင်းတင်ပြပါသည်။

အစည်းအဝေးမှ ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Myan SEEs Ltd. တည်ထောင်၍ CMP စနစ်ဖြင့် အထည်နှင့်လက်အိတ်မျိုးစုံချုပ်လုပ်ခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်းကိုစွအား အောက်ပါအတိုင်းဆုံးဖြတ်ပါသည်-

(က) CSR Plan နှင့် CSR ရာခိုင်နှုန်းကို ထည့်သွင်းဖော်ပြရန်။

(ခ) ကနဦးပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းလုပ်ငန်း (IEE)နှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) ဆောင်ရွက်ရန်။

(ဂ) လုပ်ငန်းအမျိုးအစားအား ဆောင်ရွက်မည့် လုပ်ငန်းများနှင့် ဆီလျော်မှုရှိစေရန် "Manufacturing of Safety Gloves and Garment on CMP Basis" ဟု ပြင်ဆင်ရန်။

(ဃ) သဘောထားများစုံလင်ပြီး တွက်ချက်မှုများ ပြင်ဆင်ပြီးပါက ကော်မရှင် အစည်းအဝေးသို့ တင်ပြရန်။

ဆုံးဖြတ်ချက်များ	**ဆောင်ရွက်ရန်**
၆။ အစည်းအဝေးမှ အောက်ပါတို့ကို ဆုံးဖြတ်ပါသည်- (က) ဖက်စပ်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Toyotsu Paragon Co., Ltd. တည်ထောင်၍ ဆပ်ပြာချက်ရန် အခြေခံ ကုန်ကြမ်းဖြစ်သော LAS နှင့် DBSA ကို မြန်မာနိုင်ငံတွင် ထုတ်လုပ်၍ ပြည်တွင်း၌ ရောင်းချခြင်း၊ ပြည်ပသို့တင်ပို့ ရောင်းချခြင်း လုပ်ငန်းများ ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြခြင်းကိုစွအား အောက်ပါအချက်များ ပြည့်စုံစွာဆောင်ရွက်ပြီးမှသာ အဆိုပြုလွှာ ပြန်လည်တင်ပြရန် ဆုံးဖြတ်ခဲ့ပါသည်- (၁) IRR တွက်ချက်မှုအား ပြန်လည် စိစစ်ရန်။ (၂) မြေငှားရမ်းခနှုန်းထားများအား ပြန်လည်စိစစ်ရန်။ (၃) Jetty ဟူ၍ သုံးနှုန်းထားမှုအား ပြင်ပေးရန်။	အဆိုပြုချက် စိစစ်ရေးရုံးအဖွဲ့ Toyotsu Paragon Co., Ltd.

(၄) Layout Plan ကို အတိုင်းအတာ အတိအကျဖော်ပြပြီး အသေးစိတ် တင်ပြရန်။

(၅) Jetty တည်ဆောက်ရာတွင် အကောက်ခွန်ဦးစီးဌာန၊ မြန်မာ့ဆိပ်ကမ်းအာဏာပိုင်နှင့်ရေအရင်းအမြစ် အသုံးချမှု ဦးစီးဌာနသို့လည်း ခွင့်ပြုချက်ရယူရန်။

(၆) ESIA Report ရေးဆွဲရာတွင် Emergency Response Plan အား ပါအောင်ရေးဆွဲရန်။

(၇) စက်ပစ္စည်းနှင့် ကုန်ကြမ်းပစ္စည်းများအား ပြည်တွင်း/ပြည်ပ ဝယ်ယူမှုအား ခွဲခြားဖော်ပြရန်။

(၈) ပို့ဆောင်ရေးဝန်ကြီးဌာနသို့ တင်ပြစာနှင့် Jetty ဆောင်ရွက်မည့် အစီအစဉ် အသေးစိတ်ဖော်ပြရန်။

(ခ)	ရခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited ဟည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်းကိစ္စ အားအောက်ပါအတိုင်း ဆုံးဖြတ်ပါသည်- (၁) ကနဦးပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းလုပ်ငန်း(IEE) နှင့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) ဆောင်ရွက်ရန်။ (၂) စက်ရုံတည်ဆောက်မည့်မြေ အကျယ်အဝန်း အတိအကျဖော်ပြ၍ မြေငှားခနှုန်းကို ပြန်လည်စိစစ်ရန်။ (၃) လုပ်ငန်းအမျိုးအစားအား ဆောင်ရွက်မည့် လုပ်ငန်းများနှင့် ဆီလျော်မှုရှိစေရန် "Manufacturing and Marketing of Electric Wire Harness" ဟု ပြင်ဆင်ရန်။ (၄) CSR Plan နှင့် အရှုံးအမြတ်စာရင်းတွင် CSR ရာခိုင်နှုန်းကို ထည့်သွင်းဖော်ပြရန်။ (၅) ဝန်ထမ်းလစာစာရင်းကို စနစ်တကျ ရေးဆွဲတင်ပြရန်။ (၆) သဘောထားများစုံလင်ပြီး တွက်ချက်မှုများ ပြင်ဆင်ပြီးပါကကော်မရှင် အစည်းအဝေးသို့ တင်ပြရန်။	အဆိုပြုချက် စိစစ်ရေးရုံးအဖွဲ့ Denso Industry Yangon Limited.
(ဂ)	ရခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Myan SEEs Ltd. တည်ထောင်၍ CMP စနစ်ဖြင့် အထည်နှင့် လက်အိတ်မျိုးစုံ ချုပ်လုပ်ခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်းကိစ္စအား တစ်ဖက်ပါအတိုင်းဆုံးဖြတ်ပါသည်-	အဆိုပြုချက် စိစစ်ရေးရုံးအဖွဲ့ Myan Sees Ltd.

(၁) CSR Plan နှင့် CSR ရာခိုင်နှုန်းကို ထည့်သွင်းဖော်ပြရန်။

(၂) ကနဦးပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းလုပ်ငန်း (IEE)နှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု အစီအစဉ် (EMP) ဆောင်ရွက်ရန်။

(၃) လုပ်ငန်းအမျိုးအစားအား ဆောင်ရွက်မည့် လုပ်ငန်းများနှင့် ဆီလျော်မှုရှိစေရန် "Manufacturing of Safety Gloves and Garment on CMP Basis" ဟုပြင်ဆင်ရန်။

(၄) သဘောထားများစုံလင်ပြီး တွက်ချက်မှုများ ပြင်ဆင်ပြီးပါက ကော်မရှင် အစည်းအဝေးသို့တင်ပြရန်။

၇။ အစည်းအဝေးကို မွန်းလွဲ(၁၂း၀၀) နာရီတွင် ရုပ်သိမ်းပါသည်။

မှတ်တမ်းတင်သူ

(သန့်စင်ကြိုင်)
ညွှန်ကြားရေးမှူး

စာအမှတ်၊ ရက-၁ / မ-၀၀၂ / ၂၀၁၄ (၅၃၈၀)
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် မေ လ ၂၆ ရက်

ဖြန့်ဝေခြင်း

အစည်းအဝေးတက်ရောက်သူများအားလုံး

နောက်ဆက်တွဲ-က

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
တိုင်းဒေသကြီးအစိုးရအဖွဲ့
ရန်ကုန်တိုင်းဒေသကြီး

စာအမှတ်၊ ၂ / ၃ - ၆ (၅) / စီးပွား
ရက် စွဲ ၊၂၀၁၄ ခုနှစ်၊ ဇွန် လ ၂၄ ရက်

သို့
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်
နေပြည်တော်

အကြောင်းအရာ ။ **သဘောထားမှတ်ချက်တောင်းခံခြင်းကိစ္စ**

ရည် ညွှန်း ချက်။ မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ ၂၁. ၅. ၂၀၁၄ ရက်စွဲပါစာအမှတ်၊ ရက - ၁/န-၁၀၃၇/၂၀၁၄ (၅၁၉၇)

၁။ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd. မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက်အမှတ် (၂၄၀)၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ (၁. ၆၁၀)ဧကအနက် (၁၁၈၉. ၇၇ စတုရန်းမီတာ) (၀. ၂၉၄ ဧက)၌ လျှပ်စစ်ဆိုင်ရာပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် လျှောက်ထားလာမှုအပေါ် အောက်ပါ အချက်များအား သဘောထားမှတ်ချက် ပြန်ကြားပေးပါရန် ရည်ညွှန်းပါစာဖြင့် ညှိနှိုင်းအကြောင်းကြားလာခြင်းနှင့်ပတ်သက်၍ ကွင်းဆင်းစိစစ်မှုအရ အောက်ပါအတိုင်း သဘောထားမှတ်ချက် တင်ပြအပ်ပါသည်-

(က) ရင်းနှီးမြှုပ်နှံမှု ပြုလုပ်မည့်နေရာသည် နောင်ပြုလုပ်မည့် (သို့မဟုတ်) လက်ရှိမြို့ပြစီမံကိန်းကို ထိခိုက်နိုင်ခြင်းမရှိပါ၊

(ခ) အဆိုပြုလုပ်ငန်းလုပ်ကိုင်ပါက ပြည်တွင်းလုပ်သားအင်အား (၄၆၇)ဦး အလုပ်အကိုင်ရရှိမည်ဖြစ်သောကြောင့် မြို့နယ်ဒေသအလုပ်အကိုင် အခွင့်အလမ်းနှင့် ဒေသစီးပွားရေးဖွံ့ဖြိုးတိုးတက်မှုအတွက် အထောက်အကူဖြစ်စေပါသည်၊

(ဂ) အဆိုပြုလုပ်ငန်းလုပ်ကိုင်ရန်အတွက် မြေကွက်အမှတ် (၂၄၀)၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်ရှိ မြေ (၁. ၆၁၀)ဧကအနက် (၁၁၈၉. ၇၇ စတုရန်းမီတာ) (၀. ၂၉၄ ဧက)အား မြေနှင့်အဆောက်အဦကို ပိုင်ရှင်ဒေါ်ကျင်သန်းထံမှ ဂျပန်နိုင်ငံသား Mr. Takashi MISHIMAကငှားရမ်းခအဖြစ် မြေတစ်စတုရန်းမီတာလျှင် အမေရိကန်ဒေါ်လာ (၃၉. ၉၂)ဒေါ်လာနှုန်းဖြင့် တစ်နှစ်တစ်ကြိမ်စာချုပ်ချုပ်ဆိုပြီး (၄)နှစ် ငှားရမ်းလုပ်ကိုင်ခြင်းအပေါ် ဒေသခံများက လူမှုရေး၊ စီးပွားရေး၊ သဘာဝပတ်ဝန်းကျင် ထိန်းသိမ်းမှုတို့အရ လက်ခံနိုင်ခြင်းရှိပါသည်၊

(ဃ) အဆိုပြုလုပ်ငန်းလုပ်ကိုင်ရာတွင် သဘာဝပတ်ဝန်းကျင်အား ထိခိုက်မှုမရှိစေရန် စီမံဆောင်ရွက်မည်ဟု တင်ပြထားပါသည်။

၂။ အထက်ဖော်ပြပါ အချက်များကြောင့် (၁၉. ၆. ၂၀၁၄) ရက်နေ့တွင် ကျင်းပပြုလုပ်သော ရန်ကုန်တိုင်းဒေသကြီးအစိုးရအဖွဲ့ အစည်းအဝေးအမှတ်စဉ် (၂၃/၂၀၁၄)၊ ဆုံးဖြတ်ချက်အပိုဒ် (၄၁)အရ Denso Industry Yangon Limited ၏ ရင်းနှီးမြှုပ်နှံမှုလုပ်ငန်းသစ်ဆောင်ရွက်မှုအား ခွင့်ပြု သင့်ပါကြောင်း ထောက်ခံတင်ပြအပ်ပါသည်။

(မြင့်ဆွေ)
ဝန်ကြီးချုပ်

မိတ္တူကို

ရန်ကုန်တိုင်းဒေသကြီးစီမံကိန်းနှင့်စီးပွားရေးဝန်ကြီး
ရန်ကုန်မြောက်ပိုင်းခရိုင်အထွေထွေအုပ်ချုပ်ရေးဦးစီးဌာန
လှိုင်သာယာမြို့နယ်အထွေထွေအုပ်ချုပ်ရေးဦးစီးဌာန
Denso Industry Yangon Limited
လက်ခံစာတွဲ
မျှောစာတွဲ

နောက်ဆက်တွဲ-ခ

M-4721
13/6

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အစိုးရ
ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးနှင့်သစ်တောရေးရာဝန်ကြီးဌာန
ပြည်ထောင်စုဝန်ကြီးရုံး

စာအမှတ် ၂/၂၂၀(ခ)(ဖ)/(၄၂၃၃ /၂၀၁၄)
ရက်စွဲ ၂၀၁၄ ခုနှစ်၊ ဇွန်လ ၇၇ ရက်

သို့

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

အကြောင်းအရာ။ <u>Denso Industry Yangon Limited မှ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်းဆောင်ရွက်ခွင့်ပြုပါရန်ကိစ္စနှင့်ပတ်သက်၍ သဘောထားမှတ်ချက်တင်ပြခြင်း</u>

ရည် ညွှန်း ချက် ။ မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ ၂၁-၅-၂၀၁၄ ရက်စွဲပါစာအမှတ်- ရက-၁/န-၁၀၃၇/၂၀၁၄ (၅၁၉၈)

၁။ မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်မှ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြဲလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ (၁.၆၁၀) ဧကအနက် (၁၁၈၉.၇၇) စတုရန်းမီတာ (၀.၂၉၄)ဧကေ၌ လျှပ်စစ်ဆိုင်ရာပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်းဆောင်ရွက်ခွင့်ပြုပါရန်ကိစ္စနှင့်ပတ်သက်၍ အဆိုပြုမြေနေရာတွင် လုပ်ငန်းဆောင်ရွက်ရန် သင့်/မသင့်နှင့် သဘာဝပတ်ဝန်းကျင်ထိခိုက်မှု ရှိ/မရှိ စသည့်အချက်များအပေါ် စိစစ်ပြီး ဌာနဆိုင်ရာသဘောထားမှတ်ချက်ကို ပြန်ကြားအပ်ပါသည်။

၂။ ပူးတွဲပေးပို့လာသည့် အဆိုပြုလွှာတွင် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံခွင့် လျှောက်ထားခြင်း၊ ရင်းနှီးမြှုပ်နှံမှုကာလမှာ ကနဦး နှစ် (၃၀) ဖြင့် စတင်ဆောင်ရွက်မည်ဖြစ်ကြောင်း၊ မြေငှားစာချုပ်၊ ထုတ်လုပ်မည့် ကုန်ပစ္စည်းအမျိုးအစား၊ စက်ရုံပုံစံ၊ သင်းဖွဲ့မှတ်တမ်း၊ သင်းဖွဲ့စည်းမျဉ်းများ၊ အသုံးပြုမည့်စက်ပစ္စည်းနှင့်ကုန်ကြမ်းပစ္စည်းစာရင်း၊ စက်ရုံဝန်ထမ်းများအတွက် သက်သာချောင်ချိရေးနှင့် ကျန်းမာရေးအတွက် ဆောင်ရွက်ထားရှိမည့် အစီအစဉ်များ၊ မီးဘေးကာကွယ်ရေးအစီအစဉ်များ၊ ဘဏ္ဍာရေးဆိုင်ရာအချက်အလက်များ၊ ထုတ်လုပ်မှုလုပ်ငန်းစဉ်များနှင့် ပတ်ဝန်းကျင် ထိန်းသိမ်းဆိုင်ရာ ဥပဒေ၊ နည်းဥပဒေများအား လိုက်နာဆောင်ရွက်သွားမည်ဖြစ်ကြောင်းနှင့်

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်မှ သဘောထားပြန်ကြားချက်ရလျှင် ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ချက် အစီရင်ခံစာအား တင်ပြသွားမည်ဖြစ်ကြောင်း ဖော်ပြထားပါသည်။

၃။ အဆိုပါ လုပ်ငန်းဆောင်ရွက်ရာတွင် လျှပ်စစ်ပစ္စည်းများ ဖြတ်တောက်ခြင်း၊ ပုံသွင်းခြင်း၊ စုပေါင်းတပ်ဆင်ခြင်းများတွင် အသုံးပြုသော ပလပ်စတစ်ကုန်ကြမ်းပစ္စည်းများ၊ သတ္တုများ၊ တပ်ဆင်မည့်စက်ပစ္စည်းများမှထွက်ရှိလာမည့် အခိုးအငွေ့များ၊ အနံ့အသက်များ၊ စွန့်ပစ်ပစ္စည်းများသည် ပတ်ဝန်းကျင်ကို ညစ်ညမ်းစေနိုင်ပါသည်။

၄။ သို့ဖြစ်ပါ၍ မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်မှ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြဲလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ (၁.၆၁၀) ဧကအနက် (၁၁၈၉.၇၇) စတုရန်းမီတာ (၀.၂၉၄)ဧကတွင် လျှပ်စစ်ဆိုင်ရာပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်းဆောင်ရွက်ခွင့်ပြုပါရန်ကိစ္စနှင့်ပတ်သက်၍ အောက်ပါအချက်များကို ထည့်သွင်းလိုက်နာဆောင်ရွက်ရန် လိုအပ်ပါကြောင်း သဘောထားမှတ်ချက် ပြန်ကြားအပ်ပါသည်-

(က) အဆိုပြုလုပ်ငန်းများကြောင့်ဖြစ်ပေါ်လာနိုင်သည့် ပတ်ဝန်းကျင်၊ လူမှုရေးနှင့် ကျန်းမာရေးထိခိုက်ပျက်စီးမှုများကို ရှောင်ရှားနိုင်ရန်အတွက် လုပ်ငန်းလည်ပတ်ခြင်းနှင့် ထုတ်လုပ်ခြင်းအဆင့်ဆင့်တို့၏ စီမံကိန်းဆိုင်ရာ အချက်အလက်များ ပြည့်စုံစွာဖော်ပြပြီး လုပ်ငန်းဆောင်ရွက်ရာတွင် ပတ်ဝန်းကျင်ကို ထိခိုက်မှုအနည်းဆုံးဖြစ်စေမည့် စက်ကိရိယာများနှင့် ကုန်ထုတ်လုပ်မှုနည်းပညာများ အသုံးပြုဆောင်ရွက်ရန်၊

(ခ) စီမံကိန်းလုပ်ငန်းဆောင်ရွက်မှုကြောင့် ဖြစ်ပေါ်လာနိုင်သည့် ပတ်ဝန်းကျင်၊ လူမှုရေးနှင့် ကျန်းမာရေး ထိခိုက်ပျက်စီးမှုများ လျော့နည်းစေရန်အတွက် လုပ်ငန်းအကောင်အထည်မဖော်မီ မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်၏ အမိန့်ကြော်ငြာစာအမှတ် (၁/၂၀၁၃) အရ လိုအပ်သည့် ပတ်ဝန်းကျင်ဆိုင်ရာ ကနဦးလေ့လာခြင်း (Initial Environmental Examination-IEE) လုပ်ငန်းကိုဆောင်ရွက်ရန်၊

(ဂ) အထက်ပါ လေ့လာဆန်းစစ်မှုရလဒ်များကို အခြေခံ၍ ပတ်ဝန်းကျင်နှင့် လူမှုရေးဆိုင်ရာ ထိခိုက်မှုအနည်းဆုံးဖြစ်စေသည့် လုပ်ငန်းဆောင်ရွက်မည့် အစီအစဉ်၊ စွန့်ပစ်ပစ္စည်း/စွန့်ပစ်အရည်များ စီမံခန့်ခွဲမှုအစီအစဉ်၊ စောင့်ကြည့်

လေ့လာမည့် အစီအစဉ်၊ ပတ်ဝန်းကျင်ထိခိုက်မှု လျော့ပါးရေးဆောင်ရွက်မည့် လုပ်ငန်းများအတွက် သုံးစွဲမည့်ရန်ပုံငွေ စသည်တို့ပါဝင်သည့် ပတ်ဝန်းကျင် ဆိုင်ရာစီမံခန့်ခွဲမှု စီမံချက် (Environmental Management Plan-EMP) ရေးဆွဲတင်ပြရန်နှင့် စီမံချက်ပါအတိုင်းအကောင်အထည်ဖော်ဆောင်ရွက်ရန်၊

(ဃ) ပြဋ္ဌာန်းထားသည့် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ ဥပဒေ၊ နည်းဥပဒေ၊ လုပ်ထုံးလုပ်နည်း၊စည်းမျဉ်းစည်းကမ်းများနှင့်အညီ လိုက်နာကျင့်သုံး အကောင် အထည်ဖော် ဆောင်ရွက်ရန်။

ပြည်ထောင်စုဝန်ကြီး(ကိုယ်စား)

(မျိုး ညွန့် ၊ ရုံး အ ဖွဲ့ မှူး)

မိတ္တူ - ညွှန်ကြားရေးမှူးချုပ်၊ ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန

- ညွှန်ကြားရေးမှူးချုပ်၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန

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ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အစိုးရ
စက်မှုဝန်ကြီးဌာန

စာအမှတ်၊ ၂၁-စမ(၂)၂၀၁၄-၂၀၁၅(၈၁၈)
ရက် စွဲ၊ ၂၀၁၄ ခုနှစ် ဇွန်လ ၉ ရက်

သို့
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်ရုံး

အကြောင်းအရာ။ **သဘောထားမှတ်ချက်ပြန်ကြားခြင်း**

ရည် ညွှန်း ချက်။ မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ ၂၁.၅.၂၀၁၄ ရက်စွဲပါ စာအမှတ်၊ ရက-၁/န-၁၀၃၇/၂၀၁၄(၅၁၉၉)

၁။ Denso Industry Yangon Limited သည် ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် ရန်ကုန်တိုင်းဒေသကြီး၊ လှိုင်သာယာမြို့နယ်၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ ဒီပဲယင်းဝန်ထောက်ဦးမြဲလမ်း၊ မြေကွက်အမှတ် ၂၄၀ တွင် လျှပ်စစ်ဆိုင်ရာပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်းဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်းအပေါ် သဘောထားမှတ်ချက်ပြန်ကြားပေးပါရန် ရည်ညွှန်းချက်ပါစာဖြင့် အကြောင်းကြားလာပါသည်။

၂။ အဆိုပါကုမ္ပဏီမှ ဆောင်ရွက်မည့်လုပ်ငန်းများနှင့်ပတ်သက်၍ အောက်ပါအတိုင်း စိစစ်တွေ့ရှိရပါသည်-

(က) ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံပြီး လျှပ်စစ်ဆိုင်ရာပစ္စည်းအစိတ်အပိုင်းများ(ဝိုင်ယာထိန်းကြိုး)ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်မည်ဖြစ်ပါသည်။

(ခ) လျှပ်စစ်သွယ်တန်းအသုံးပြုမှုအား လျှပ်စစ်ဥပဒေနှင့်အညီ အသုံးမပြုမီ စစ်ဆေးဆောင်ရွက်ရန် လိုအပ်ပါသည်။

(ဂ) ပတ်ဝန်းကျင်ညစ်ညမ်းမှုမဖြစ်ပေါ်စေရေးအတွက် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၏ စိစစ်ချက်ဖြင့် စနစ်တကျဆောင်ရွက်ရန် လိုအပ်ပါသည်။

(ဃ) ပုဂ္ဂလိကစက်မှုလုပ်ငန်းဥပဒေနှင့်အညီ စက်မှုမှတ်ပုံတင်ဆောင်ရွက်ရန် လိုအပ်ပါသည်။

(င) နှစ်အလိုက် ကုန်ကြမ်းဝယ်ယူမှုနှင့် ထုတ်လုပ်မှုအချိုးအစား ညီညွတ်မှုရှိပါသည်။

(စ) စက်အင်အား၊ လူအင်အား တင်ပြထားချက် ဆီလျော်မှုရှိပါသည်။

(ဆ) ကုန်ကြမ်း၊ ကုန်ချောဈေးနှုန်း ဆီလျော်မှုရှိပါသည်။

၃။ သို့ပါ၍ Denso Industry Yangon Limited မှ လျှပ်စစ်ဆိုင်ရာပစ္စည်း အစိတ်အပိုင်းများ(ဗိုင်ယာထိန်းကြိုး)ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်းဆောင်ရွက်ရာတွင် အထက်ပါလိုအပ်ချက်များအား ဖြည့်ဆည်းဆောင်ရွက်ပြီး နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဥပဒေ၊ ပုဂ္ဂလိကစက်မှုလုပ်ငန်းဥပဒေနှင့်တည်ဆဲဥပဒေလုပ်ထုံးလုပ်နည်းများနှင့်ညီညွတ်ပါက ဤဝန်ကြီးဌာနအနေဖြင့် ကန့်ကွက်ရန်မရှိပါကြောင်း ပြန်ကြားအပ်ပါသည်။

ပြည်ထောင်စုဝန်ကြီး(ကိုယ်စား)
(လှမိုး၊ ရုံးအဖွဲ့မှူး)

မိတ္တူကို

စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန

အမှတ်(၂)အကြီးစားစက်မှုလုပ်ငန်း

ကြေးနန်းလိပ်စာ - "စိစစ်တိုး"
တယ်လီဖုန်းအမှတ်- ၄၀၆၀၆၅
- ၄၀၆၀၆၆
- ၄၀၆၀၆၇
- ၄၀၆၀၆၈
- ၄၀၆၀၆၉
- ၄၀၆၀၇၀
- ၄၀၆၀၇၁

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အစိုးရ
အမျိုးသားစီမံကိန်းနှင့်စီးပွားရေးဖွံ့ဖြိုးတိုးတက်မှုဝန်ကြီးဌာန
စီမံကိန်းစိစစ်ရေးနှင့်တိုးတက်မှုအစီရင်ခံရေးဦးစီးဌာန
ရုံးအမှတ်၃၂၊ နေပြည်တော်

စာအမှတ်၊စစတ- ဦး/၇၂၁(၁၇၅၈/၂၀၁၄)
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် မေလ ၂၂ ရက်

M-4519
22.5.2014

အမှာစာ

အကြောင်းအရာ။ **ဂျပန်နိုင်ငံ Denso Industry Yangon Asia Co.,Ltd. မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး လျှပ်စစ်ဆိုင်ရာပစ္စည်း အစိတ်အပိုင်းများ(ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့်ရောင်းချခြင်း လုပ်ငန်းဆောင်ရွက်ခွင့်ပြုပါရန် အဆိုပြုချက် တင်ပြလာခြင်းကိစ္စ**

ရည်ညွှန်းချက် ။ မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်၊ အဆိုပြုချက် စိစစ်ရေးအဖွဲ့၏ ၂၀-၅-၂၀၁၄ ရက်စွဲပါ စာအမှတ်၊ ရက-၁/န-၁၀၃၇/၂၀၁၄ (၅၁၂၃)

၁။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ ဂျပန်နိုင်ငံ Denso Industry Yangon Asia Co.,Ltd.မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြဲလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊လှိုင်သာယာမြို့နယ်၊ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ ၁.၆၁၀ ဧကအနက် ၁၁၈၉.၇၇ စတုရန်းမီတာ(၀.၂၉၄ ဧက)၌ လျှပ်စစ်ဆိုင်ရာပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး)ထုတ်လုပ်ခြင်းနှင့်ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် အဆိုပြုချက်တင်ပြလာခြင်းကိစ္စအပေါ် စီးပွားရေးတွက်ချက်မှုဆိုင်ရာ ကိစ္စရပ်များအားစိစစ်ပြီး တွေ့ရှိချက်များ ပြန်ကြားပေးပါရန် ရည်ညွှန်းချက်ပါစာဖြင့် အကြောင်းကြားလာပါသည်။

၂။ တင်ပြလာသည့် ရင်းနှီးမြှုပ်နှံမှု အဆိုပြုလွှာပါ ငွေသားစီးဆင်းမှု စာရင်းများကို အခြေခံ၍ စိစစ်တွက်ချက်ရာ အောက်ပါအတိုင်း တွေ့ရှိရပါကြောင်း ပြန်ကြားအပ်ပါသည်-

(က) ငွေသားစီးဆင်းမှုစာရင်း (Cash Flow) မှ အချက်အလက်များဖြင့် တွက်ချက်ရာ ရင်းနှီးမြှုပ်နှံမှုအပေါ် အကျိုးအမြတ်ပြန်ပေါ်နှုန်း IRR မှာ ၁၂.၅၃% ရရှိပြီး ကုမ္ပဏီမှ တွက်ချက်တင်ပြထားသည်နှင့် ကိုက်ညီမှုရှိသည်ကို တွေ့ရှိရပါကြောင်း၊

(ခ) အရင်းအနှီး၏အခွင့်အလမ်းစရိတ် (Opportunity Cost) ၁၂%ဖြင့် တွက်ချက်ပါက အကျိုးအမြတ်နှင့် ကုန်ကျစရိတ်အချိုးမှာ ၁.၀၀ ရရှိပြီး အသားတင်လက်ငင်းတန်ဖိုးမှာ အမေရိကန်ဒေါ်လာ ၀.၀၂၄ သန်း ရရှိသည်ကို တွေ့ရှိရပါကြောင်း၊

(ဂ) တွက်ချက်ရရှိသော အရင်းကြေကာလမှာ ၇ နှစ် နှင့် ၁လ ဖြစ်ပြီး အဆိုပြုလွှာပါ အရင်းကြေကာလနှင့် ကိုက်ညီမှုရှိသည်ကို တွေ့ရှိရပါကြောင်း၊

(ဃ) Denso Industry Yangon Limited သည် ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီး မြှုပ်နှံမှုဖြင့် စီမံကိန်းအား စုစုပေါင်းရင်းနှီးမြှုပ်နှံမှု အမေရိကန်ဒေါ်လာ ၁.၈၀ သန်း ဖြင့် ဆောင်ရွက်မည် ဖြစ်ပါကြောင်း၊

(င) **လူမှုရေးအကျိုးသက်ရောက်မှုအနေဖြင့်** နိုင်ငံအတွင်းဝန်ထမ်း (၄၆၇) ဦး အလုပ်အကိုင် အခွင့်အလမ်းများ ရရှိနိုင်မည်ဖြစ်ပါကြောင်း၊ ဝန်ထမ်းများအတွက် သက်သာချောင်ချိရေး အစီအစဉ်များ ဆောင်ရွက်ထားရှိမည်ဟု ဖော်ပြပါရှိပါကြောင်း၊

(စ) **ပတ်ဝန်းကျင်အပေါ်အကျိုးသက်ရောက်မှုများ** အတွက် မီးဘေးကြိုတင်ကာကွယ်ရေး အစီအစဉ်များနှင့် ပတ်ဝန်းကျင်ညစ်ညမ်းမှု မဖြစ်ပွားစေရန် အစီအစဉ်များ ဆောင်ရွက် ထားရှိမည်ဟု ဖော်ပြပါရှိပါကြောင်းနှင့် အဆိုပါအစီအမံများအား လေးစားလိုက်နာရန် လိုအပ်ပါကြောင်း၊

(ဆ) အဆိုပါ ရင်းနှီးမြှုပ်နှံမှု ဆောင်ရွက်ခြင်းဖြင့် နိုင်ငံသားများ၏ အလုပ်အကိုင် အခွင့် အလမ်းများ တိုးတက်မှုမှတစ်ဆင့် စီးပွားရေးဖွံ့ဖြိုးတိုးတက်လာနိုင်စေခြင်း၊ ဒေသတွင်း လူငယ်များအတွက် အလုပ်အကိုင်အခွင့်အလမ်းများ တိုးတက်လာနိုင်စေခြင်းနှင့် နိုင်ငံတော်အတွက် အခွန်ငွေများတိုးမြှင့်ရရှိလာနိုင်ခြင်း စသည့် အကျိုးကျေးဇူးများ ရရှိလာနိုင်မည် ဖြစ်ပါကြောင်း။

ညွှန်ကြားရေးမှူးချုပ်(ကိုယ်စား)
(ဒေါက်တာကျော်ဆန်း၊ ညွှန်ကြားရေးမှူး)

ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန

မိတ္တူကို
ပြည်ထောင်စုဝန်ကြီးရုံး၊ အမျိုးသားစီမံကိန်းနှင့်စီးပွားရေးဖွံ့ဖြိုးတိုးတက်မှုဝန်ကြီးဌာန
ရုံးလက်ခံ/မျှောစာတွဲ

ပြည်ထောင်စု သမ္မတမြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်
ရုံးအမှတ်(၃၂)၊ နေပြည်တော်

Myanmar Investment Commission

☎ -၀၆၇-၄၀၆၃၃၄၊ ၄၀၆၀၇၅
ဖက်စ်-၀၆၇-၄၀၆၃၃၃

စာအမှတ်၊ရက-၁/န-၁၀၃၇/၂၀၁၄(၅၁၉၇)
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် မေလ ၂၁ ရက်

သို့

ရန်ကုန်တိုင်းဒေသကြီး အစိုးရအဖွဲ့

အကြောင်းအရာ။ **သဘောထားမှတ်ချက်တောင်းခံခြင်းကိစ္စ**

ရည် ညွှန်း ချက်။ Denso Industry Yangon Limited ၏ (၁၆-၅-၂၀၁၄) ရက်စွဲပါစာ

၁။ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd. မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက် အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ ၁.၆၁၀ ဧကအနက် ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) ၌ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်သို့ အဆိုပြုလွှာ တင်ပြလာပါသည်။

၂။ နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု နည်းဥပဒေ အခန်း (၆) အပိုဒ်(၄၃) ပါ ပြဋ္ဌာန်းချက်နှင့်အညီ အဆိုပြုချက်ကိုစိစစ်ရာတွင် နေပြည်တော်ကောင်စီ သို့မဟုတ် တိုင်းဒေသကြီး သို့မဟုတ် ပြည်နယ် အစိုးရအဖွဲ့၏ သဘောထားကို တောင်းခံရယူရန် လိုအပ်ပါသည်။

၃။ ရင်းနှီးမြှုပ်နှံမှု လုပ်ငန်းသစ်ဆောင်ရွက်ခွင့်အတွက် သက်ဆိုင်ရာတိုင်းဒေသကြီးနှင့် ပြည်နယ်အစိုးရမှ ထောက်ခံချက်ပေးရာတွင် ဝန်ကြီးချုပ်ကိုယ်တိုင် စိစစ်လက်မှတ်ရေးထိုးပြီး ထောက်ခံပေးပါရန်နှင့် နိုင်ငံခြား ရင်းနှီးမြှုပ်နှံမှု နည်းဥပဒေ အပိုဒ် (၄၄) နှင့်အညီ **ရက်သတ္တပတ်တစ်ပတ်အတွင်း** ပြန်ကြားပေးနိုင်ပါရန် အဆိုပြုလွှာ(တစ်)စုံအား ပူးတွဲပေးပို့လျက် ညှိနှိုင်းမေတ္တာ ရပ်ခံအပ်ပါသည်-

(က) ရင်းနှီးမြှုပ်နှံမှုပြုမည့် နေရာသည် နောင်ပြုလုပ်မည့် (သို့မဟုတ်) လက်ရှိမြို့ပြ စီမံကိန်းကို ထိခိုက်ခြင်း ရှိ/ မရှိ။

(ခ) မြို့နယ်ဒေသအလုပ်အကိုင် အခွင့်အလမ်းနှင့် ဒေသစီးပွားရေးဖွံ့ဖြိုးတိုးတက်မှု အတွက် အထောက်အကူဖြစ်/ မဖြစ်။

(ဂ) ဖော်ပြပါ မြေနေရာအား စက်ရုံအတွက် သုံးစွဲခြင်းအပေါ် ဒေသခံများက လူမှုရေး၊ စီးပွားရေး၊ သဘာဝပတ်ဝန်းကျင် ထိန်းသိမ်းမှုတို့အရ လက်ခံနိုင်ခြင်း ရှိ/ မရှိ။

(ဃ) တိုင်းဒေသကြီးအစိုးရအဖွဲ့၏ အကြံပြုချက်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်

ရုံးအမှတ်(၃၂)၊ နေပြည်တော်

Myanmar Investment Commission

☎ -၀၆၇-၄၀၆၃၃၄၊ ၄၀၆၀၇၅

📠 -၀၆၇-၄၀၆၃၃၃

စာအမှတ်၊ရက-၁/န-၁၀၃၇/၂၀၁၄ (၅၁၉၈)

ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် မေလ ၂၁ ရက်

သို့

ပြည်ထောင်စုဝန်ကြီးရုံး

ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးနှင့် သစ်တောရေးရာဝန်ကြီးဌာန

အကြောင်းအရာ။ **သဘောထားမှတ်ချက်တောင်းခံခြင်းကိစ္စ**

ရည် ညွှန်း ချက်။ Denso Industry Yangon Limited ၏ (၁၆-၅-၂၀၁၄) ရက်စွဲပါစာ

၁။ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd. မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက် အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ ၁.၆၁၀ ဧကအနက် ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) ၌ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်သို့ အဆိုပြုလွှာ တင်ပြလာပါသည်။

၂။ နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု နည်းဥပဒေ အခန်း(၆) အပိုဒ်(၄၃) နှင့် (၄၅) ပါ ပြဋ္ဌာန်းချက်နှင့်အညီအဆိုပြုချက်ကိုစိစစ်ရာတွင် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးနှင့် သစ်တောရေးရာဝန်ကြီးဌာန၏ သဘောထားကို တောင်းခံရယူရန် လိုအပ်ပါသည်။

၃။ သို့ဖြစ်ပါ၍ အဆိုပြုလုပ်ငန်း ဆောင်ရွက်ခြင်းနှင့် စပ်လျဉ်း၍ သဘောထားမှတ်ချက်အား စာလက်ခံရရှိသည့်နေ့မှစ၍ ခုနှစ်ရက်အတွင်း ပြန်ကြားပေးပါရန် မေတ္တာရပ်ခံအပ်ပါသည်။

၄။ Denso Industry Yangon Limited နှင့် ဆက်သွယ်ရန်လိပ်စာမှာ ဒေါ်စမ်းစမ်းရီ၊ တယ်လီဖုန်း ၀၉-၂၀၄၃၉၀၄ ဖြစ်ပါသည်။

ဥက္ကဋ္ဌ (ကိုယ်စား)

(ချိုချိုဝင်း၊ဒုတိယညွှန်ကြားရေးမှူး‌ချုပ်)

မိတ္တူကို

ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန

Denso Industry Yangon Limited

ရုံးလက်ခံ/မျှောစာတွဲ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်
ရုံးအမှတ်(၃၂)၊ နေပြည်တော်

Myanmar Investment Commission

☎-၀၆၇-၄၀၆၃၃၄၊ ၄၀၆၀၇၅
📠-၉၅-၆၇-၄၀၆၃၃၃

စာအမှတ်၊ရက-၁/န-၁၀၃၇/၂၀၁၄ (၅၁၉၉)
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် မေလ ၂၁ ရက်

သို့

ပြည်ထောင်စုဝန်ကြီးရုံး
စက်မှုဝန်ကြီးဌာန

အကြောင်းအရာ။ **သဘောထားမှတ်ချက်တောင်းခံခြင်းကိစ္စ**

ရည် ညွှန်း ချက်။ Denso Industry Yangon Limited ၏ (၁၆-၅-၂၀၁၄) ရက်စွဲပါစာ

၁။ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd. မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက် အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြဲလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ ၁.၆၁၀ ဧကအနက် ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) ၌ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်သို့ အဆိုပြုလွှာ တင်ပြလာပါသည်။

၂။ နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု နည်းဥပဒေ အခန်း(၆) အပိုဒ် (၄၆) ပါ ပြဋ္ဌာန်းချက်နှင့်အညီ အဆိုပြု ချက်ကိုစိစစ်ရာတွင် သက်ဆိုင်ရာအဖွဲ့အစည်းများ၏ သဘောထားများကို တောင်းခံရယူရန်လိုအပ်ပါသည်။

၃။ သို့ဖြစ်ပါ၍ အဆိုပြုလုပ်ငန်း ဆောင်ရွက်ခြင်းနှင့် စပ်လျဉ်း၍ သဘောထားမှတ်ချက်အားစာလက်ခံရရှိသည့် နေ့မှစ၍ ခုနှစ်ရက်အတွင်း ပြန်ကြားပေးပါရန် မေတ္တာရပ်ခံအပ်ပါသည်။

၄။ Denso Industry Yangon Limited နှင့် ဆက်သွယ်ရန်လိပ်စာမှာ ဒေါ်စမ်းစမ်းရီ၊ တယ်လီဖုန်း ၀၉-၂၀၄၇၉၀၄ ဖြစ်ပါသည်။

ဥက္ကဋ္ဌ(ကိုယ်စား)
(ချိုချိုဝင်း၊ဒုတိယညွှန်ကြားရေးမှူးချုပ်)

မိတ္တူကို

စက်မှုကြီးကြပ်ရေးနှင့် စစ်ဆေးရေးဦးစီးဌာန
အမှတ် (၁) အကြီးစားစက်မှုလုပ်ငန်း
Denso Industry Yangon Limited
ရုံးလက်ခံ/မျှောစာတွဲ

ကန့်သတ်

အကြောင်းအရာ။ **ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်း ကိစ္စ**

၁။	ကုမ္ပဏီအမည်/ ကမကထပြုသူ	- Denso Industry Yangon Limited - Mr. Takashi MISHIMA (ဂျပန်)
	အဖွဲ့အစည်းပုံသဏ္ဍာန်	- ရာခိုင်နှုန်းနိုင်ငံခြား ရင်းနှီးမြှုပ်နှံမှု (၁၀၀ %) - Denso Industry Asia Co., Ltd.
	လုပ်ငန်းအမျိုးအစား	- လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း
၂။	တည်နေရာ	- မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်း စက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး
	မြေအကျယ်အဝန်း	- မြေ ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧကာ)
	မြေပိုင်ရှင်	- ဒေါ်ကျင်သန်း (၂၂-၇-၂၀၁၁ နေ့မှစ၍ နှစ် ၆၀)
၃။	နှစ်စဥ်မြေ နှင့် အဆောက်အဦငှားရမ်းခ	- နှစ်စဥ်မြေငှားရမ်းခမှာ ကျပ် ၄၅,၆၀၀,၀၀၀ ဖြစ်ပါသည်။ - မြေ တစ်စတုရန်းမီတာလျှင် (၁)နှစ် ကျပ် ၃၈,၃၄၆ နှုန်းဖြစ်ပါသည်။
၄။	လုပ်ငန်းသက်တမ်း	- ၃၀ နှစ်
	တည်ဆောက်ရေးကာလ	- ၂ နှစ်
၅။	စုစုပေါင်းရင်းနှီးမြှုပ်နှံမှု	- အမေရိကန်ဒေါ်လာ ၀.၈၀၀ သန်း
	ထည့်ဝင်သည့် အမျိုးအစား	- US$ (သန်း)
	ငွေသား	၀.၂၇၂
	စက်နှင့်စက်ပစ္စည်း (ပြည်ပ)	၀.၅၂၈
	စုစုပေါင်း	**၀.၈၀၀**
၆။	ဝန်ထမ်းအင်အား (ပထမနှစ်)	- **၂,၄၀၆၄ ဦး**
	ပြည်တွင်း	- ၆၂ ဦး (ပြည်တွင်းဝန်ထမ်း တစ်ဦး၏ အနိမ့်ဆုံး လစာမှာ US$ ၄၀၀၊ အမြင့်ဆုံးလစာမှာ US$ ၁,၅၀၀)
	ပြည်ပ	- ၈ ဦး(ပြည်ပဝန်ထမ်း တစ်ဦး၏ အနိမ့်ဆုံး လစာမှာ US$ ၃၅၀၊ အမြင့်ဆုံးလစာမှာ US$ ၂၅,၀၀၀)
၇။	ရောင်းချမည့်စနစ်	- ၁၀၀ % ပြည်ပသို့ တင်ပို့ခြင်း
၈။	ကုမ္ပဏီ၏ ဝင်ငွေ (ဆဋ္ဌမနှစ်) ကုမ္ပဏီ၏ အသုံးစရိတ် (ဆဋ္ဌမနှစ်) ကုမ္ပဏီ၏ အသားတင်အမြတ် (ဆဋ္ဌမနှစ်)	- US$ ၇.၈၀၀ သန်း - US$ ၇.၆၈၄ သန်း - US$ ၀. ၁၁၆ သန်း
၉။	နိုင်ငံတော်မှရရှိမည့်အကျိုးအမြတ် (ဆဋ္ဌမနှစ်)	
	ဝင်ငွေခွန်	- US$ ၀.၀၄၂ သန်း

ကန့်သတ်

	အရင်းကြေကာလ	- ၇ နှစ် ၁ လ
	အရင်းအနှီးအပေါ်အကျိုးအမြတ်ပြန်ပေါ်နှုန်း (IRR)	- ၁၂.၅၃ %
၁၀။	လျှပ်စစ်ဓါတ်အားသုံးစွဲမှု	- ၂၆၇,၃၀၀ KW
၁၁။	နှစ်စဉ်ထုတ်လုပ်မှု (ဆဋ္ဌမနှစ်)	

	ပြည်ပပို့ (ton)	စျေးနှုန်း (US$/ton)
IDT harness	၁,၇၁၆,၀၀၀	၀.၁
Crimping harness	၁၆,၃၅၇,၇၁၄	၀.၂
Soldering harness	၃၁,၂၀၀,၀၀၀	၀.၀၂
Other harness	၁,၇၂၉,၀၀၀	၀.၄

။	စိစစ်တွေ့ရှိချက်	- Denso Industry Yangon Limited ၏ MOA နှင့် AOA မူကြမ်း၊ ဒါရိုက်တာစာရင်းများ၊ ပတ်စပို့မိတ္တူများကို တင်ပြထားပါသည်။ - Denso Industry Yangon Limited မှ ပတ်ဝန်းကျင် ထိန်းသိမ်းရေးနှင့် သန့်ရှင်းသာယာရေး စီမံချက်၊ မီးဘေးကာကွယ်ရေး အစီအစဉ်၊ လစာခွန်ပေးဆောင်မည် ဖြစ်ကြောင်း ဝန်ခံကတိပြု ထားပါသည်။ -မြေပိုင်ရှင် ဒေါ်ကျင်သန်းနှင့် Denso Industry Yangon Limited တို့ ချုပ်ဆိုမည့် မြေငှားစာချုပ်မူကြမ်း၊ စက်ရုံတည်နေရာပြ မြေပုံ တို့ကို တင်ပြထားပါသည်။ -ငွေရေးကြေးရေးအထောက်အထား အဖြစ် Denso Industry Asia Co., Ltd. ၏ Financial Statement နှင့် Denso Industry Co., Ltd. ၏ Financial Statement တို့ကို တင်ပြထားပါသည်။ - အဆိုပါလုပ်ငန်းသည် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်မှ ၁/၂၀၁၃ ဖြင့်ထုတ်ပြန်ထားသည့် စီးပွားရေးအမျိုးအစားတွင် ခွင့်မပြုသည့်လုပ်ငန်း၊ ဖက်စပ်စနစ်ဖြင့်သာ ဆောင်ရွက်ရမည့် လုပ်ငန်း၊ ကန့်သတ်ချက်တစ်ရပ်ရပ်ကို လိုက်နာဆောင်ရွက်ရမည့် လုပ်ငန်းစာရင်းတို့တွင် မပါဝင်သဖြင့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအရ ခွင့်ပြုနိုင်သော လုပ်ငန်းအမျိုးအစား ဖြစ်ပါသည်။ - နိုင်ငံခြား ရင်းနှီးမြှုပ်နှံမှုဥပဒေပါ အခွန်ဆိုင်ရာ ကင်းလွတ်ခွင့်နှင့် သက်သာ ခွင့်များကို ခံစားခွင့်ပြုရန် လျှောက်ထားလာပါသည်။ - ၁ US$ လျှင် ၉၆၁ ကျပ်နှုန်းဖြင့် တွက်ချက်တင်ပြထားပါသည်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်
အဆိုပြုချက် စိစစ်ရေးအဖွဲ့

ဖက်(စ်)၉၅-၆၇-၄၀၆၃၃၃ တယ်လီဖုန်း-၀၆၇-၄၀၆၃၃၄၊ ၄၀၆၀၇၅

စာအမှတ်၊ရက-၁/န-၁၀၃၇/၂၀၁၄(၅၁၂၄)
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် မေလ ၂၀ ရက်

အဆိုပြုချက်စိစစ်ရေးအဖွဲ့သို့ တင်ပြမည့်အမှာစာ

အကြောင်းအရာ။ **ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်း ကိစ္စ**

ရည် ညွှန်း ချက်။ Denso Industry Yangon Limited ၏ (၁၆-၅-၂၀၁၄) ရက်စွဲပါစာ

၁။ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd. မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက်အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ ၁.၆၀၀ ဧကအနက် ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) ၌ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်း အစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်သို့ အဆိုပြုလွှာတင်ပြလာပါသည်။

၂။ သို့ဖြစ်ပါ၍ Denso Industry Yangon Limited မှ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ် အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်းအား နိုင်ငံခြားရင်းနှီး မြှုပ်နှံမှု ဥပဒေဖြင့် ဆောင်ရွက်ခွင့်ပြုပါရန် အဆိုပြုချက် နှင့်စပ်လျဉ်း၍ အဖွဲ့ဝင်များနှင့် ဌာနများမှ စိစစ်၍ လိုအပ်ချက်များ၊ ပြင်ဆင်ဖြည့်စွက်ရန်ကိစ္စများ၊ လုပ်ထုံးလုပ်နည်းများနှင့် မညီညွတ်သည့် ကိစ္စများကို ဆွေးနွေးနိုင်ပါရန်တင်ပြအပ်ပါသည်။

20.5.2014

အဖွဲ့ခေါင်းဆောင်(ကိုယ်စား)
(စန်းစန်းမြင့်၊ ညွှန်ကြားရေးမှူး)

မိတ္တူကို
ရုံးလက်ခံ/ မျှောစာတွဲ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်
ရုံးအမှတ်(၃၂)၊ နေပြည်တော်

ဖုန်း-၀၆၇-၄၀၆၀၇၅
ဖက်စ်-၀၆၇-၄၀၆၃၃၃

စာအမှတ်၊ရက-၁/န-၁၀၃၇/၂၀၁၄ (၅၁၂၂)
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် မေလ ၂၀ ရက်

သို့

ကုမ္ပဏီများညွှန်ကြားမှုဌာန

အကြောင်းအရာ။ ရာခိုင်နှုန်းပြည့်နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်၍ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် တင်ပြလာခြင်း ကိစ္စ

ရည် ညွှန်း ချက်။ Denso Industry Yangon Limited ၏ (၁၆-၅-၂၀၁၄) ရက်စွဲပါစာ

၁။ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd. မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက် အမှတ် ၂၄၀၊ ဒီပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ ၁.၆၁၀ ဧကအနက် ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) ၌ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်သို့ အဆိုပြုလွှာ တင်ပြလာပါသည်။

၂။ သို့ဖြစ်ပါ၍ အဆိုပြုချက် တင်ပြလာမှုအား သိသာနိုင်ပါရန်နှင့် လိုအပ်သလိုဆက်လက် ဆောင်ရွက်နိုင်ပါရန် အကြောင်းကြားအပ်ပါသည်။

၂၀.၅.၂၀၁၄

ညွှန်ကြားရေးမှူးချုပ်(ကိုယ်စား)
(စန်းစန်းမြင့်၊ ညွှန်ကြားရေးမှူး)

မိတ္တူ-
ရုံးလက်ခံ/ မျှောစာတွဲ

ပြည်ထောင်စု သမ္မတမြန်မာနိုင်ငံတော်
မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်
အဆိုပြုချက်စိစစ်ရေးအဖွဲ့
ရုံးအမှတ်(၃၂)၊ နေပြည်တော်

☎ -၀၆၇-၄၀၆၃၃၄၊ ၄၀၆၀၇၅
📠 -၀၆၇-၄၀၆၃၃၃

စာအမှတ်၊ရက-၁/န-၁၀၃၇/၂၀၁၄ (၅၁၂၃)
ရက်စွဲ၊ ၂၀၁၄ ခုနှစ် မေလ ၂၀ ရက်

သို့

ညွှန်ကြားရေးမှူးချုပ်
စီမံကိန်းစိစစ်ရေးနှင့် တိုးတက်မှုအစီရင်ခံရေးဦးစီးဌာန

အကြောင်းအရာ။ **သဘောထားမှတ်ချက်တောင်းခံခြင်းကိစ္စ**

ရည် ညွှန်း ချက်။ Denso Industry Yangon Limited ၏ (၁၆-၅-၂၀၁၄) ရက်စွဲပါစာ

၁။ ဂျပန်နိုင်ငံ Denso Industry Asia Co., Ltd. မှ မြန်မာနိုင်ငံတွင် ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဖြင့် Denso Industry Yangon Limited တည်ထောင်ပြီး မြေကွက် အမှတ် ၂၄၀၊ ဒိပဲယင်းဝန်ထောက်ဦးမြလမ်း၊ ရွှေလင်ပန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးရှိ မြေ ၁.၆၁၀ ဧကအနက် ၁,၁၈၉.၇၇ စတုရန်းမီတာ (၀.၂၉၄ ဧက) ၌ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ခွင့်ပြုပါရန် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်သို့ အဆိုပြုလွှာ တင်ပြလာပါသည်။

၂။ နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု နည်းဥပဒေ အခန်း (၆) အပိုဒ် (၄၆) ပါ ပြဋ္ဌာန်းချက်နှင့် အညီ အဆိုပြုချက်ကို စိစစ်ရာတွင် သက်ဆိုင်ရာ အဖွဲ့အစည်းများ၏ သဘောထားများကို တောင်းခံရယူရန် လိုအပ်ပါသည်။

၃။ သို့ဖြစ်ပါ၍ အဆိုပြုလုပ်ငန်း ဆောင်ရွက်ခြင်းနှင့် စပ်လျဉ်း၍ သဘောထားမှတ်ချက်အား စာလက်ခံရရှိသည့်နေ့မှစ၍ ခုနှစ်ရက်အတွင်း ပြန်ကြားပေးပါရန် မေတ္တာရပ်ခံအပ်ပါသည်။

၄။ Denso Industry Yangon Limited နှင့် ဆက်သွယ်ရန်လိပ်စာမှာ ဒေါ်စမ်းစမ်းရီ၊ တယ်လီဖုန်း ၀၉-၂၀၄၃၉၀၄ ဖြစ်ပါသည်။

၂၀.၅.၂၀၁၄
အဖွဲ့ခေါင်းဆောင်(ကိုယ်စား)
(စန်းစန်းမြင့်၊ ညွှန်ကြားရေးမှူး)

မိတ္တူကို
Denso Industry Yangon Limited
ရုံးလက်ခံ/မျှောစာတွဲ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံအတွင်း

နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုပြုလုပ်လိုသူ၏

အဆိုပြုချက်

“ဒန်ဆိုအင်ဒတ်စတြီရန်ကုန်လ်မိတက်”

PROPOSAL OF THE INVESTOR FOR MAKING INVESTMENT IN THE REPUBLIC OF THE UNION OF MYANMAR

" DENSO INDUSTRY YANGON LIMITED"

Director General
Myanmar Investment Commission
Building No. 1, Thit Sar Road, Yankin Township, Yangon
The Republic of the Union of Myanmar

Reference: : Decision of MIC meeting held on 19 SEPTEMBER 2014

Subject: :Proposal for 100% foreign investment for carrying out Manufacturing and Marketing of Electronic Wire Harness business upon establishing Denso Industry Yangon Limited

Dear Sir,

Regarding the above subject matter and reference, we, Denso Industry Yangon Limited, would like to inform you that we have complied decision of MIC meeting held on 19 Sep 2014, and submit the following documents

1) Salary statement showing US$ 90 per month for lowermost worker and related amended sheets namely selling and administrative expenses, profit & loss statement and cash flow statement and IRR. (Annex I-1, I-2, M-1,N, P)
2) Our commitment to Corporate Social Responsibility showing providing of lightening to neighboring community and
3) Application Letter for MIC permit with manufacturing and marketing of electronic wire harness.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

The Chairman
The Myanmar Investment Commission
Building No.1, Thit Sar Road, Yankin Township, Yangon

Re: Our Commitment to Corporate Social Responsibility

Dear Sir,

Denso Industry Co., Ltd., indirectly holding 100% shareholder of Denso Industry Yangon Limited, has grown steadily during the past years by developing and implementing the Corporate Social Responsibility ("CSR") into our business. While we are proud of the results we have achieved, we believe that our success could not have achieved without community support. As we have successfully developed the CSR in our business in China, we wish to share our accomplishment and expand our dedication to the CSR in the Republic of the Union of Myanmar by reverting the company profit into society.

Accordingly, we confirm that Denso Industry Yangon Limited will spend one percent (1%) of its net business profit on the CSR activities and manage the CSR fund under the strict company policy and rule.

In addition, we promise to achieve our excellence in the CSR through the following activities:

1. Scholarship and education training program;
2. Development programs for neighboring community with local governmental authorities including activities such as providing lightening and road improvement ; and
3. Career training program for employment.

Should you have any queries please do not hesitate to contact us.
Thank you.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

Director General
Myanmar Investment Commission
Building No. 1, Thit Sar Road, Yankin Township, Yangon
The Republic of the Union of Myanmar

Reference: : Decision of MIC meeting held on 19 SEPTEMBER 2014

Subject: :Application for MIC permit for carrying out Manufacturing and Marketing of Electronic Wire Harness business upon establishing Denso Industry Yangon Limited

Dear Sir,

Regarding the above subject matter and reference, we, Denso Industry Yangon Limited, would like to have the MIC permit with the business type "Manufacturing and Marketing of electronic wire harness".

The "electronic wire harness" is not an electronic part or electric cables. The electronic wire harness is an advanced processing component of the electronic part. The electronic wire harness is an assembly of cables or wires and connectors that connect to other connectors, which transmit signals or electrical power.

As the term "electronic wire harness" is commonly used in the electric devices and handsets, the electronic wire harness is a well-recognized business term in many countries. Accordingly, we would like to kindly ask your approval for us to use the term "electronic wire harness" and obtain the MIC Permit for "manufacturing and marketing of the electronic wire harness".

We look forward to receiving a positive reply from you.

Thank for your time and consideration.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

LIST OF DOCUMENTS SUBMITTED FOR MIC PROPOSAL OF DENSO INDUSTRY YANGON LIMITED

No.	Description	Remarks
1	Reply letter about compliance with PAT meeting's decision	
2	Lease rate of land & building	
3	Our Commitment to Corporate Social Responsibility	
4	Promoter Letter to MIC	
5	Purpose of Expansion into Myanmar	
6	MIC Proposal (Form 1)	Annexure A to U (Amended No. 1(g), 3(a) of proposal form, No. 4(c)&(d) of Form 4 of lease of Land and building, Annex D picture of Machinery, Annex E Picture of Factory Accessories & Annex F picture of Office Accessories)
7	Application for tax exemptions, reliefs and privileges	
8	Location Map of Manufacturing Business	
9	Grant of Industrial Land	
10	Land Lease Agreement	
11	Bank Reference of Business and Financial Standing	
12	Profile of Denso Industry Co., Ltd.	
13	ISO 14001 Certificate for Environmental Management System for Sales and Quality Assurance of Electric Wire Harness	
14	Board of Directors Meeting Minutes	
15	Incorporation Certificate of Denso Industry Co., Ltd., Japan	
16	Incorporation Certificate of Denso Industry Asia Co., Ltd., Hongkong	
17	Audited Financial Statements of Industry Co., Ltd., Japan (FY 2011, 2012 & 2013)	1 set
18	Company Formation Documents sent to DICA	
19	Draft of Memorandum and Articles of Association	

သို့

ညွှန်ကြားရေးမှူးချုပ်
မြန်မာ့ရင်းနှီးမြှုပ်နှံမှုကော်မရှင်
ရုံးအမှတ်(၃၂)၊ နေပြည်တော်
ပြည်ထောင်စု သမ္မတမြန်မာနိုင်ငံတော်။

ရည်ညွှန်းချက်။ ။ ၂၂ရက်၊ မေလ၊ ၂၀၁၂ခုနှစ်တွင်ကျင်းပသော အဆိုပြုချက်စိစစ်ရေးအဖွဲ့၏ဆုံးဖြတ်ချက်။

အကြောင်းအရာ။ ။ အီလက်ထရောနစ်ဝါယာ ဟားနက်(စ်) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်းလုပ်ငန်း ဆောင်ရွက်ရန်အတွက် Denso Industry Yangon Limited တည်ထောင်ရန် ရာနှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု၏ အဆိုပြုချက်

ဆရာ ခင်ဗျား။

ရည်ညွှန်းချက်ပါ အဆိုပြုချက်စိစစ်ရေးအဖွဲ့၏ ဆုံးဖြတ်ချက်များကို အောက်ပါအတိုင်း လိုက်နာ ဆောင်ရွက်ပြီးဖြစ်၍ သက်ဆိုင်ရာစာရွက်စာတမ်းများကို ပူးတွဲပေးပို့အပ်ပါသည်။

(၁) "ဆုံးဖြတ်ချက်အမှတ်စဉ်(၁)ကနဦးပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းလုပ်ငန်း (IEE) နှင့် ပတ် ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) ဆောင်ရွက်ရန်"ကို လိုက်နာဆောင်ရွက်ပြီးဖြစ်၍ ကနဦးပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းလုပ်ငန်း (IEE)နှင့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ် (EMP) အတွက် အစီရင်ခံစာ (၂)စုံ ၊

(၂) "ဆုံးဖြတ်ချက်အမှတ်စဉ်(၂) စက်ရုံတည်ဆောက်မည့်မြေ အကျယ်အဝန်း အတိအကျ ဖော်ပြ၍ မြေငှားခနှုန်းကို ပြန်လည်စိစစ်ရန်" ကို လိုက်နာဆောင်ရွက်ပြီးဖြစ်၍ ယင်းနှင့်ပတ်သက်သည့် စာရွက်စာတမ်းများ၊

(၃) "ဆုံးဖြတ်ချက်အမှတ်စဉ်(၃)လုပ်ငန်းအမျိုးအစားအား ဆောင်ရွက်မည့်လုပ်ငန်းများနှင့် ဆီလျော်မှုရှိစေရန် " Manufacturing and Marketing of Electric Wire Harness" ဟု ပြင်ဆင်ရန်" ကို လိုက်နာဆောင်ရွက်ပြီးဖြစ်၍ ပြင်ဆင်ထားသော စာရွက်စာတမ်းများ၊

(၄) "ဆုံးဖြတ်ချက်အမှတ်စဉ်(၄) CSR Plan နှင့် အရှုံးအမြတ်စာရင်းတွင် CSR ရာခိုင်နှုန်းကို ထည့် သွင်းဖော်ပြရန်" ကို လိုက်နာဆောင်ရွက်ပြီးဖြစ်၍ သက်ဆိုင်ရာစာရွက်စာတမ်းများ၊

(၅) "ဆုံးဖြတ်ချက်အမှတ်စဉ်(၅) "ဝန်ထမ်းလစာစာရင်းကို စနစ်တကျ ရေးဆွဲတင်ပြရန်"ကို လိုက်နာဆောင်ရွက်ပြီးဖြစ်၍ ပြင်ဆင်ထားသော စာရွက်စာတမ်းများ၊

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

7

Land and Building to be rent

0.294 Acre **=12,800 Square Feet** **=1189.78 Sq Meter**

(80 ft x 160 ft) (1 sq m = 10.76391 sq ft)

Year	12,800 Square Feet Kyats	1 Sq ft Kyats	1 Sq . Meter Kyats	US$
For the first year	45,600,000	3,562.50	38,326.41	39.92
For the Second year	45,600,000	3,562.50	38,326.41	39.92
For the Third year	45,600,000	3,562.50	38,326.41	39.92
For the forth year	45,600,000	3,562.50	38,326.41	39.92
	182,400,000		Ex rate= 960 K/ US$	

The Chairman
The Myanmar Investment Commission

Re: Our Commitment to Corporate Social Responsibility

Dear Sir,

Denso Co., Ltd., indirectly holding 100% shareholder of Denso Yangon Limited, has grown steadily during the past years by developing and implementing the Corporate Social Responsibility ("CSR") into our business. While we are proud of the results we have achieved, we believe that our success could not have achieved without community support. As we have successfully developed the CSR in our business in China, we wish to share our accomplishment and expand our dedication to the CSR in the Republic of the Union of Myanmar by reverting the company profit into society.

Accordingly, we confirm that Denso Yangon Limited will spend one percent (1%) of its net business profit on the CSR activities and manage the CSR fund under the strict company policy and rule.

In addition, we promise to achieve our excellence in the CSR through the following activities:

1. Scholarship and education training program (30% of CSR fund);
2. Community development programs with local governmental authorities (40% of CSR fund); and
3. Career training program for employment (30% of CSR fund).

Should you have any queries please do not hesitate to contact us.
Thank you.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

The Chairman
Myanmar Investment Commission
Building No. 32, Nay Pyi Taw
The Republic of the Union of Myanmar

Subject: : Proposal of the promoter to make Foreign Investment in Myanmar

Your Excellency,

Denso Industry Asia Co., Ltd. established in Hongkong, which is wholly owned by Denso Industry Co., Ltd. established in Japan, would like to invest in Myanmar under the Foreign Investment Law and Myanmar Companies Act, contributing foreign capital of 100% named as "Denso Industry Yangon Limited".

We intend to carry out the business of manufacturing and marketing of electronic wire harness and other related business.

At present, Denso Industry Yangon Limited will carry out the manufacturing and marketing of electronic wire harness. We are planning to gradually increase the production of electronic wire harness in the Republic of the Union of Myanmar.

We will pay most of our expenses in Foreign Currency (US$). However, certain kinds of expenses such as the payment of wages, it may be more feasible and practical to settle these expenses in Kyats. In those cases, we will exchange foreign currency at registered Foreign Currency Exchange Counters in order to obtain Kyats for selling such expenses in Kyats. The attached financial projection is calculated and presented with foreign currency (US$).

We hope the above clarifications will meet the requirements. As such, we submit herewith the proposal together with the following supporting documents:

1. Proposal of the promoter to make Foreign Investment in the Republic of the Union of the Myanmar.
2. Location map of Manufacturing Business.
3. Land and Building Lease Agreement
4. References for Business and Financial Standing.
5. Draft of Memorandum of Association and Articles of Association.

Finally, I promise that the proposed investment will be greatly contributing to development of the Industry in Myanmar.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

PURPOSE OF EXPANSION INTO MYANMAR

Trading partners of Denso Industry Group are no longer confined to Japan and China, and are extending throughout the Southeast Asia. In order to enhance Customers' Satisfaction, there is a necessity to establish another Manufacturing Base other than China.



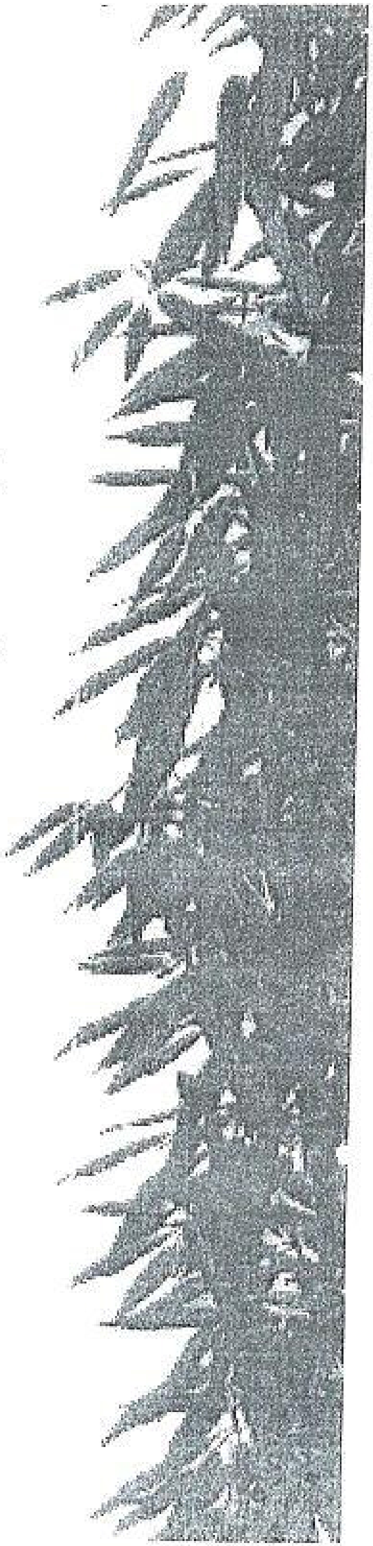
BACKGROUND OF EXPANSION INTO MYANMAR

- Field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc. since 2010. The final decision was Myanmar, where our business can achieve rapid development.
- High-quality Labour Force
- Positive Attitude of Improvement on Logistics, Investment Promotion and etc.
- Enthusiasm in Unifying the System of Tax and Legislation between Public and Private Sectors.



MYANMAR INVESTMENT DETAILS

- Facilities Investment (electronic component processing Large-Scaled Machinery)
- Human Resources Investment (Dispatch of Japanese Technician)
- Capital investment (USD800,000 , USD2,000,000 authorized)
- Environmental Investment (ISO, Systematization of environmental regulations)
- Education Investment (Training in Japan)

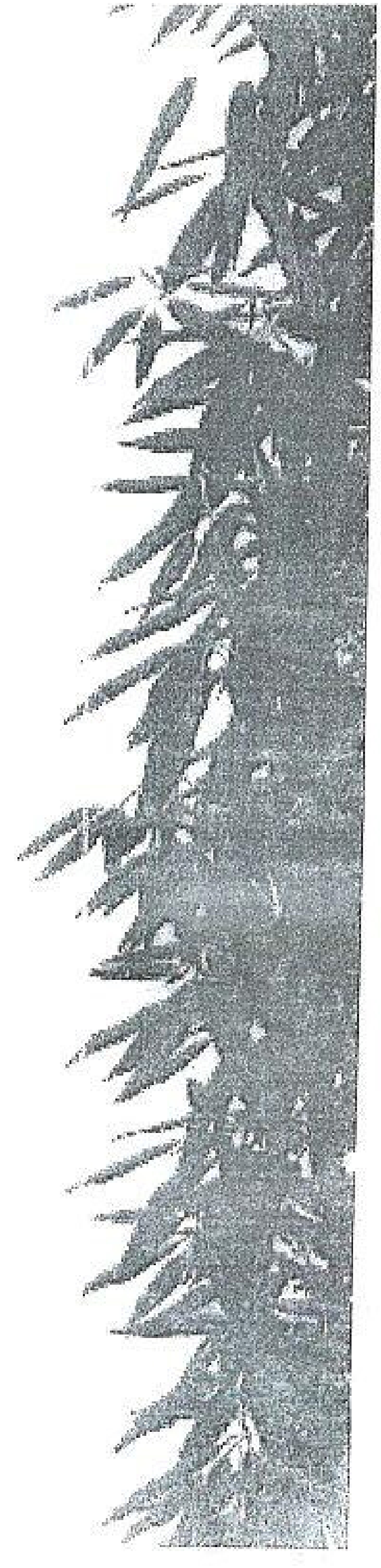


SIGNIFICANCE OF EXPANSION INTO MYANMAR

- Trial Investment in new type of industry (Harness)
- Summarise the 20 years' experience of Factory Operations in China, an inexperienced person can be trained into a well-skilled person through systematic guidance (Education)
- The two existing Factories in China are of size from 500 to its max. 1200 employees. Our investment, therefore, will definitely create a lot of job opportunities in the future (Contribution)

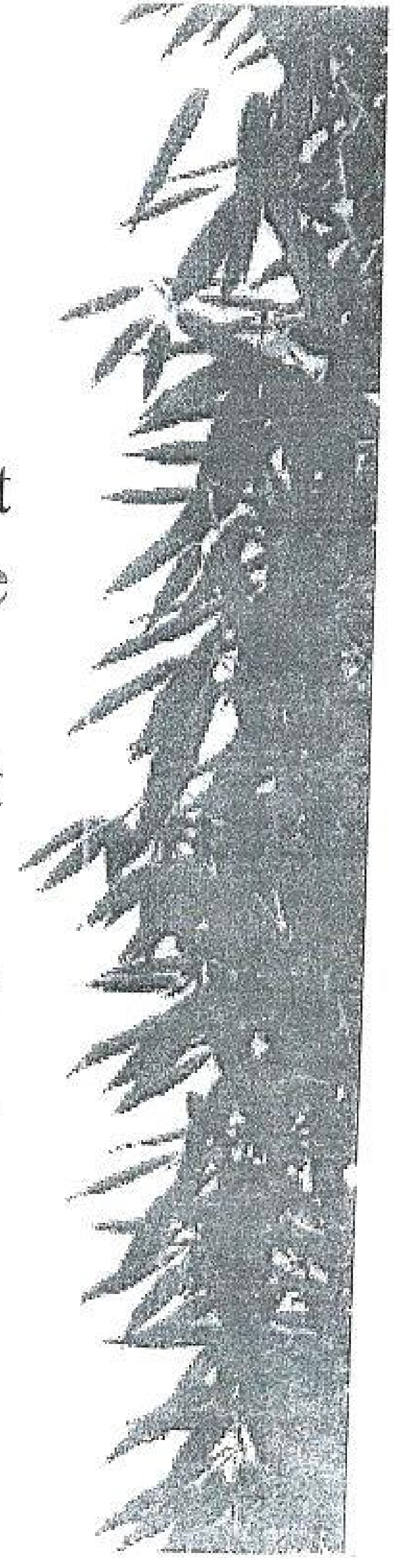
SCHEDULE OF EXPANSION INTO MYANMAR

- January, 2014 - Factory Contract (Shwe Lin Ban)
- February, 2014 - MIC Application
- June, 2014 - Start of Facilities Import
- July, 2014 - Start of Material Import
- August, 2014 - Start of Operation
- September, 2014 - Start of Product Export



DENSO INDUSTRY INVESTMENT PRINCIPLE

- Maintaining the employment, gaining profit rapidly and aiming at the Expansion of the Enterprise Scale.
- Achieving a Stable and Sustainable Management through the Provision of Welfare Policy.
- Supporting the Further Development of Myanmar through the Continuing Social and Economical Contribution.



16

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အတွင်း နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ပြုလုပ်ရန် ကမကထပြုသူ၏ ဆောင်ရွက်ရန် အဆိုပြုချက်

PROPOSAL OF THE PROMOTER TO MAKE FOREIGN INVESTMENT IN THE REPUBLIC OF THE UNION OF MYANMAR

17

Proposal Form of Investor/Promoter for the Investment to be made in the Republic of the Union of Myanmar

To

Chairman,

Myanmar Investment Commission,

Reference No.

Date 16 MAY 2014

I do apply for the permission to make investment in the Republic of the Union of Myanmar in accordance with the Foreign Investment Law by furnishing the following particulars:-

1. The Investor's or Promoter's-

(a)	Name	Mr. Takashi MISHIMA
(b)	Father's name	Mr. Nagashima AKIO
(c)	ID No. National Registration Card No./ Passport No.	Passport No. TZ0468392
(d)	Citizenship	Japan
(e)	Address	
	(i) Address in Myanmar	No.240, Depeyin Wun Htauk U Myae Street, Shwe Lin Ban Industrial Zone,Hlaing Thar Yar Township,Yangon Region,the Republic of the Union of Myanmar
	(ii) Residence abroad	Flat 10, 15F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. HONGKONG
(f)	Name of Principle organization	DENSO INDUSTRY ASIA Co., Ltd.
(g)	Type of business	Manufacturing and marketing of electronic wire harness
(h)	Principle company's address	Flat 10, 15F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. HONGKONG

2. If the investment business is formed under Joint-Venture, partner's:- Not Applicable

(a)	Name	N/A

(b)	Father's name	N/A
(c)	ID No./ National Registration Card No. / Passport No.	N/A
(d)	Citizenship	N/A
(e)	Address	N/A
	(i) Address in Myanmar	N/A
	(ii) Residence abroad	N/A
(f)	Parent Company	N/A
(g)	Type of business	N/A
(h)	Parent Company's Address	N/A

3. Type of proposed investment business:-

(a)	Manufacturing	Manufacturing and marketing of electronic wire harness
(b)	Service business related with manufacturing	N/A
(c)	Services	N/A
(d)	Others	N/A

(to indicate name of goods or type of services)

4. Type of business organization to be formed:-

(a)	One hundred percent	100% Foreign Investment
(b)	Joint Venture	
	(i) Foreigner and citizen	N/A
	(ii) Foreigner and Government department/organization	N/A
(c)	By contractual basis	N/A
	(i) Foreigner and citizen	N/A
	(ii) Foreigner and Government department/organization	N/A

5. **Particulars relating to company incorporation**

(a)	Authorized capital	US$2,000,000-
(b)	Types of share	Ordinary Share
(c)	Number of shares	Authorized shares : 200,000 Subscribed shares : 80,000

6. **Particulars relating to capital of the investment business-**

	Equity	
	US$	**Equ:(Kyat)**
		(US$1=K961)
(a) Amount / percentage of local capital to be contributed	-	
(b) Amount / percentage of foreign capital to be brought in	800,000/	768,800,000-
Total	800,000/	768,800,000-

(c) Annually or period of proposed capital to be brought in	1 year
(d) Last date of capital brought in	Within 1 year after receiving investment permit
(e) Proposed duration of investment	30 years
(f) Commencement date of construction	As soon as initial importation of required equipment / machinery is completed after receiving Investment Permit
(g) Construction period	2 year

7. **Detail list of foreign capital to be brought in –**

	Equity	
	Foreign Currency	**Equ: Kyat**
	US$	(US$1=K961)
(a) Foreign currency	271,805	261,204,605
(b) Value of Machinery, Tool and Equipment (Please see Annex D) (New machine US$ 215,024+34,564 & reconditioned machine US$ 151,985+126,622= US$ 528,195)	528,195 (year 1 + year 2)	507,595,395
Value of Building Materials	-	-
(c) List of initial raw materials and value	-	-
(d) Value of license, intellectual property, industrial design, trade mark, patent rights, etc.	-	-
(e) Value of technical know-how	-	-
(f) Others	-	-
Total	800,000	768,800,000

	Year 1	**Year 2**	**Year 3**	**Total (from year 1 to year 3)**
	Foreign Currency	**Foreign Currency**	**Foreign Currency**	**Foreign Currency**
	(US$)	(US$)	(US$)	(US$)
List of Annual Raw Materials, Packing Material and Factory Consumables (including wastage) (Please see Annex H-3)	623,394	2,857,223	3,723,049	7,203,666

- We, Denso Industry Yangon Limited, will import machinery, tool and equipment amounting to USD 528,195 (Annex D) out of foreign currency – Equity USD 800,000 brought into the Republic of the Union of Myanmar from oversea countries. These machinery, tool and equipment are actually required for the construction of the factory and operation of the business. Our plan is to hire Myanmar employee and to start commercial running as soon as we constructed and installed minimum required machinery, tool and equipment to reduce any idle capacities of production. Hence, at least for the first two years, we have to construct and install the machinery, tool and equipment to the factory, and conduct productions of electric parts at the same time. If MIC does not allow

tax/custom duty exemptions on importing machinery, tool and equipment after the starting commercial running and the construction of a part of factory, we have to delay employments of Myanmar personnel until all part of factory machinery and equipment are constructed/installed. Please reconsider the nature of our business and allowance for the tax/custom duty exemptions until the construction and installment of machinery, tool and equipment are completed. Please also allow us to proceed our commercial production during the period of the construction and installment.

- We, Denso Industry Yangon Limited, will also import raw materials actually required in the operation. (Annex H-3)

8. Details of local capital to be contributed- Not Applicable

		US$
(a)	Amount of cash	-
(b)	Rental rate for building/land	-
(c)	Cost of building construction	-
(d)	Value of furniture and office equipment	-
(e)	Value of initial raw material requirement	-
(f)	Others	-
	Total	-

9. Particulars about the investment business –

(a)	Investment location(s) / place	No.240, Depeyin Wun Htauk U Myae Street, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon Region, the Republic of the Union of Myanmar
(b)	Type and area requirement for land or land and building	
(i)	Location	No.240, Depeyin Wun Htauk U Myae Street, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon Region, the Republic of the Union of Myanmar
(ii)	Number of land / building and area	One Land and one Building
(iii)	Owner of the land	

(aa) Name/company/department	Daw Kyin Than
(bb) National Registration Card No.	12/ Ta Ma Na (Naing) 074346
(cc) Address	NO. (61), 134 th Street, Tamwe Township, Yangon.
(iv) Type of land	Industrial Land
(v) Period of land lease contract	4 years. This period is extendable with Lessee's option (Denso Industry Yangon Limited's option)
(vi) Lease period	From March 1, 2014 to February 28, 2018. (4 years) This period is extendable with Lessee's option (Denso Industry Yangon Limited's option)
(vii) Lease rate	- 45,600,000 Kyats per year (including Land and Building) - 38,346 Kyats per square meter per year - Measurement of the Land 12,800 sq-ft or 1,189.78 sq-m (0.294 acre) - Measurement of the building 12,800 sq-ft or 1,189.78 sq-m (0.294 acre)
(aa) Land	16,346 kyats per square meter per year
(bb) Building	22,000 kyats per square meter per year
(viii) Ward	25
(ix) Township	Hlaing Thar Yar Township
(x) State/Region	Yangon Region
(xi) Lessee	
(aa) Name/ Name of Company/ Department	DENSO INDUSTRY YANGON LIMITED
(bb) Father's name	N/A
(cc) Citizenship	N/A
(dd) ID No./ Passport No.	
(ee) Residence Address	No. 240, Depeyin Wun Htauk U Myae Street, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon Region, the Republic of the Union of Myanmar
(c) Requirement of building constructed	
(i) Type / number of building	Steel structured Building
(ii) Area	Length 48.768 m x Breadth 24.384 m= 1,189.78 square meter
(d) Product to be produced/ Service	
(i) Name of product	Annex J

(ii) Estimate amount to be produced annually	Annex J
(iii) Type of service	N/A
(iv) Estimate value of service annually	N/A
(e) Annual Requirement of materials/ raw materials	Annex H
(f) Production system	Myanmar Domestic Production: 100%
(g) Technology	Japanese Technology
(h) System of sales	Export: 100% Domestic: 0%
(i) Annual fuel requirement (to prescribe type and quantity)	150,000 ℓ @ US$ 1.07 = US$ 160,576 (Please see Annex S)
(j) Annual electricity requirement	267,300 KW @ US$ 0.08 = US$ 21,384 (Please see Annex S)
(k) Annual water requirement (to prescribe daily requirement, if any)	626 Ton @ US$ 0.88 = US$ 551 (Please see Annex S)

10. Detail information about financial standing –

(a) Name/ company's name	The Bank of Yokohama, Ltd, Shinyokohama Branch
(b) ID No./National Registration Card No./Passport No.	Account Holder: DENSO INDUSTRY CO., LTD. Registration number: 0200-01-086081
(c) Bank Account No.	- Ordinary Deposit 1449836 - Current Account 0104913 - Time Deposit 1425771

11. Number of personnel required for the proposed economic activity: - Annex I

(a) Local personnel	(467) **number**	(99.574)%
(b) Foreign experts and technicians	(2) **number**	(0.426)%

(Engineer, QC, Buyer, Management, etc. based on the nature of business and required period)

12. Particulars relating to economic justification: -

	Foreign Currency	Equivalent Estimated Kyat
(a) Annual income	Annex J, N& P	
(b) Annual expenditure	Annex N	
(c) Annual net profit	Annex N	

(d)	Yearly investments	Annex C
(e)	Recoupment period	Annex P
(f)	Other benefits (to enclose detail calculations)	None

13. Evaluation of environmental impact:-

(a)	Organization for evaluation of environmental assessment	Conform to ISO14001(Certificates are also attached in No.10), Annex T
(b)	Duration of the evaluation for environmental assessment	Conform to ISO14001(Certificates are also attached in No.10), Annex T
(c)	Compensation programme for environmental damages	Conform to ISO14001(Certificates are also attached in No.10), Annex T
(d)	Water purification system and waste water treatment system	Conform to ISO14001(Certificates are also attached in No.10), Annex T
(e)	Waste management system	Conform to ISO14001(Certificates are also attached in No.10), Annex T
(f)	System for storage of chemicals	Conform to ISO14001(Certificates are also attached in No.10), Annex T

14. Evaluation on social impact assessments;

(a)	Organization for evaluation of social impact assessment	We will comply with relevant laws and regulations of Myanmar. Annex U
(b)	Duration of the evaluation for social impact assessment	We will comply with relevant laws and regulations of Myanmar. Annex U
(c)	Corporate social responsibility programme	We will comply with relevant laws and regulations of Myanmar. Annex U

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

Promoter

ANNEX

Annex A	List of Directors and Executives together with their NRC/Passport copies
Annex B	Name of shareholders and shares holding ratio
Annex C	Yearly Investment Plan
Annex D	List of Machinery, Tool and Equipment (100% imported items)
Annex E	List of Factory Accessories (100% locally purchased)
Annex F	List of Office Accessories (100% locally purchased)
Annex G	-
Annex H	List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) (100% imported items)
Annex I	List of Local and Foreign personnel and their salary
Annex J	Production/ service and Sales/income Schedule (export sales only/ No local sales)
Annex K	Depreciation & Amortization
Annex L	-
Annex M	Calculation for Selling and Administrative expenses/ Non-operating Expenses/ Other expenses of Cost of Goods Sold
Annex N	Profit & Loss Statement
Annex O	Foreign Exchange Saving & Local Kyat Saving (DENSO INDUSTRY YANGON LIMITED. does not have plan to make savings in Myanmar)
Annex P	Cash Flow Statement and IRR
Annex Q	Labour Welfare Letter
Annex R	Overall projection statements and Feasibility Report of the proposed business
Annex S	Annual Fuel, Electricity and Water Requirement
Annex T	Undertaking Letter for Environmental Impact
Annex U	Undertaking Letter for Social Impact

Annex A List of Directors and Executives together with their NRC/ Passport copies

Sr	Name	Citizenship & Passport No	Designation	Address	Amount Of Capital	Percentage Of Shares
1	Takashi MISHIMA	Japan TZ0468392	Managing Director	Flat 10, 15F , Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. Hongkong	0	0
2	Kazubumi FUSE	Japan TH4441171	Director	2766-17, Izumi-Cho, Izumi-Ku, Yokohama-City, Kanagawa, Japan	0	0

27

渡航先

This passport is valid for all countries and areas unless otherwise endorsed.

日本国 JAPAN

旅券
PASSPORT

型/Type: P
発行国/Issuing country: JPN
旅券番号/Passport No.: TZ0468392



姓/Surname
MISHIMA

名/Given name
TAKASHI

国籍/Nationality
JAPAN

生年月日/Date of birth
01 NOV 1974

性別/Sex
M

本籍/Registered Domicile
KAGOSHIMA

発行年月日/Date of issue
01 MAR 2007

有効期間満了日/Date of expiry
01 MAR 2017

発行官庁/Authority
CONSULATE-GENERAL OF JAPAN
AT SHANGHAI

所持人自署/Signature of bearer
三島賢司

P<JPNMISHIMA<<TAKASHI<<<<<<<<<<<<<<<<<<<<<<<<<<

TZ04683922JPN7411010M1703010<<<<<<<<<<<<<<04

28

渡航先

This passport is valid for all countries and areas unless otherwise endorsed.

日本国 JAPAN

旅券
PASSPORT

型/Type P
発行国/Issuing country JPN
旅券番号/Passport No. TH4441171



姓/Surname
FUSE

名/Given name
KAZUBUMI

国籍/Nationality
JAPAN

生年月日/Date of birth
25 AUG 1961

性別/Sex
M

本籍/Registered Domicile
TOKYO

発行年月日/Date of issue
26 SEP 2007

有効期間満了日/Date of expiry
26 SEP 2017

所持人自署/Signature of bearer
布施和文

発行官庁/Authority
MINISTRY OF
FOREIGN AFFAIRS

P<JPNFUSE<<KAZUBUMI<<<<<<<<<<<<<<<<<<<<<<<<<<<<
TH44411718JPN6108252M1709263<<<<<<<<<<<<<<04

Annex B Name of shareholders and shares holding ratio

Name of Shareholders	Shares	Shareholding Ratio
DENSO INDUSTRY ASIA CO., LTD. Registration Number: 62154019-000-10-13-3 Represented by Kazubumi FUSE	199,999	99.9995%
DENSO INDUSTRY CO., LTD. Registration Number : 0200-01-086081 Represented by Name: Tomohiko ASO	1	0.0005%

DENSO INDUSTRY YANGON LIMITED

Annex C Yearly Investment Plan

Expressed in US$

Sr. No.	Year 1	TOTAL
Foreign Currency	800,000	800,000
In-kind	-	-
land leasing right	-	-
Total	800,000	800,000

DENSO INDUSTRY YANGON LIMITED

Annex D List of New Machinery, Tool and Equipment (100% Imported Items)

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year10	Total
1	Fuel tank	1000L	1	2,000	2,000	Year 1	2,000	-	-	-	-	-	-	-	-	-	2,000
2	Fuel tank	8000L	1	5,000	5,000	Year 1	5,000	-	-	-	-	-	-	-	-	-	5,000
3	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 1	32,000	-	-	-	-	-	-	-	-	-	32,000
4	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 4	-	-	-	32,000	-	-	-	-	-	-	32,000
5	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 6	-	-	-	-	-	32,000	-	-	-	-	32,000
6	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 8	-	-	-	-	-	-	-	32,000	-	-	32,000
7	Reel stand	HK-007	2	2,500	5,000	Year 1	5,000	-	-	-	-	-	-	-	-	-	5,000
8	Reel stand	HK-007	2	2,500	5,000	Year 4	-	-	-	5,000	-	-	-	-	-	-	5,000
9	Reel stand	HK-007	2	2,500	5,000	Year 6	-	-	-	-	-	5,000	-	-	-	-	5,000
10	Reel stand	HK-007	2	2,500	5,000	Year 8	-	-	-	-	-	-	-	5,000	-	-	5,000
11	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	4	2,000	8,000	Year 1	8,000	-	-	-	-	-	-	-	-	-	8,000
12	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	4	2,000	8,000	Year 2	-	8,000	-	-	-	-	-	-	-	-	8,000
13	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	2	2,000	4,000	Year 4	-	-	-	4,000	-	-	-	-	-	-	4,000
14	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	2	2,000	4,000	Year 6	-	-	-	-	-	4,000	-	-	-	-	4,000
15	Applicator	Needs to be considered by the production Number	14	1,000	14,000	Year 1	14,000	-	-	-	-	-	-	-	-	-	14,000
16	Applicator	Needs to be considered by the production Number	10	1,000	10,000	Year 2	-	10,000	-	-	-	-	-	-	-	-	10,000
17	Applicator	Needs to be considered by the production Number	10	1,000	10,000	Year 3	-	-	10,000	-	-	-	-	-	-	-	10,000

Annex D **List of New Machinery, Tool and Equipment (100% Imported Items)**

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year10	Total
18	Applicator	Needs to be considered by the production Number	10	1,000	10,000	Year 4	-	-	-	10,000	-	-	-	-	-	-	10,000
19	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 5	-	-	-	-	5,000	-	-	-	-	-	5,000
20	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 6	-	-	-	-	-	5,000	-	-	-	-	5,000
21	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 7	-	-	-	-	-	-	5,000	-	-	-	5,000
22	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 8	-	-	-	-	-	-	-	5,000	-	-	5,000
23	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 9	-	-	-	-	-	-	-	-	5,000	-	5,000
24	Applicator	Needs to be considered by the production Number	5	1,000	5,000	Year 10	-	-	-	-	-	-	-	-	-	5,000	5,000
25	Microscope	CJK-01	2	100	200	Year 1	200	-	-	-	-	-	-	-	-	-	200
26	Microscope	Inspection camera	4	120	480	Year 1	480	-	-	-	-	-	-	-	-	-	480
27	Microscope	Inspection camera	2	120	240	Year 2	-	240	-	-	-	-	-	-	-	-	240
28	Microscope	Inspection camera	4	120	480	Year 3	-	-	480	-	-	-	-	-	-	-	480
29	Microscope	Inspection camera	2	120	240	Year 4	-	-	-	240	-	-	-	-	-	-	240
30	Microscope	Inspection camera	2	120	240	Year 5	-	-	-	-	240	-	-	-	-	-	240
31	Checker	NACMAN NMC128	4	1,200	4,800	Year 1	4,800	-	-	-	-	-	-	-	-	-	4,800
32	Checker	NACMAN NMG64	2	4,300	8,600	Year 1	8,600	-	-	-	-	-	-	-	-	-	8,600
33	Checker	NACMAN NMG64	1	4,300	4,300	Year 2	-	4,300	-	-	-	-	-	-	-	-	4,300
34	Checker	NACMAN NMG64	1	4,300	4,300	Year 3	-	-	4,300	-	-	-	-	-	-	-	4,300
35	Storip Machine	COSMIC 927R	1	4,992	4,992	Year 1	4,992	-	-	-	-	-	-	-	-	-	4,992
36	Storip Machine	ZKS-12	1	3,328	3,328	Year 1	3,328	-	-	-	-	-	-	-	-	-	3,328
37	Storip Machine	ZKS-12	2	3,328	6,656	Year 2	-	6,656	-	-	-	-	-	-	-	-	6,656
38	Air Compressor	22kw Capacity	2	50,000	100,000	Year 1	100,000	-	-	-	-	-	-	-	-	-	100,000

Annex D List of New Machinery, Tool and Equipment (100% Imported Items)

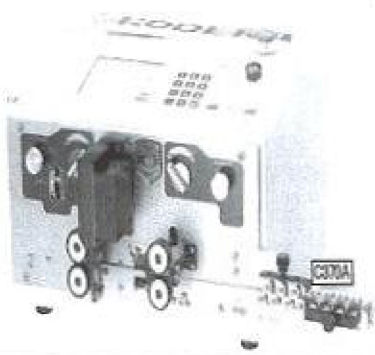
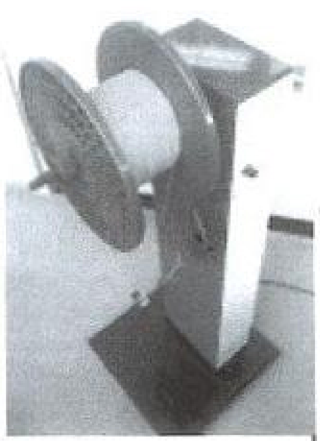
No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year10	Total
39	Air tank	400L Capacity	1	2,667	2,667	Year 1	2,667	-	-	-	-	-	-	-	-	-	2,667
40	UPS	SMU-HB152-R-200 200V1.5KVA	1	3,616	3,616	Year 1	3,616	-	-	-	-	-	-	-	-	-	3,616
41	Checker	NACMAN NMC60	6	1,141	6,844	Year 1	6,844	-	-	-	-	-	-	-	-	-	6,844
42	Checker	NACMAN NMC60	2	1,141	2,281	Year 2	-	2,281	-	-	-	-	-	-	-	-	2,281
43	Checker	NACMAN NMC60	2	1,141	2,281	Year 3	-	-	2,281	-	-	-	-	-	-	-	2,281
44	Checker	NACMAN NMC60	2	1,141	2,281	Year 4	-	-	-	2,281	-	-	-	-	-	-	2,281
45	Checker	NACMAN NMC60	2	1,141	2,281	Year 5	-	-	-	-	2,281	-	-	-	-	-	2,281
46	Checker	NACMAN NMC60	2	1,141	2,281	Year 6	-	-	-	-	-	2,281	-	-	-	-	2,281
47	Digital cutter	ZKC-25	1	7,325	7,325	Year 1	7,325	-	-	-	-	-	-	-	-	-	7,325
48	Wire twist machine	HK-029	4	1,543	6,173	Year 1	6,173	-	-	-	-	-	-	-	-	-	6,173
49	Wire twist machine	HK-029	2	1,543	3,086	Year 2	-	3,086	-	-	-	-	-	-	-	-	3,086
50	Wire twist machine	HK-029	2	1,543	3,086	Year 3	-	-	3,086	-	-	-	-	-	-	-	3,086
			161		436,060		215,024	34,564	20,148	53,521	7,521	48,281	5,000	42,000	5,000	5,000	436,060

DENSO INDUSTRY YANGON LIMITED

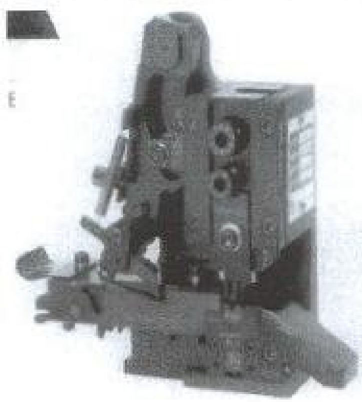
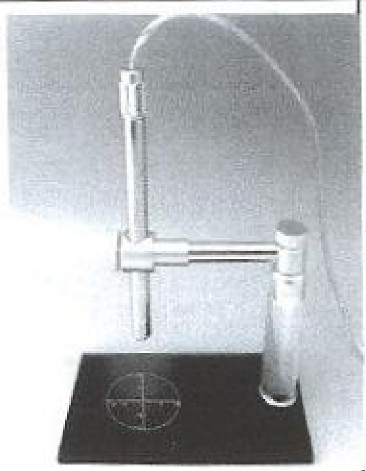
Annex D List of Reconditioned Machine (100% Imported Items)

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
1	Generator	600REOZM D600 24.5A50/60 ENGINE 5M ALTERNATOR	1	10,997	10,997	Year 1	10,997	-	-	-	-	-	-	-	-	-	10,997
2	Fully automatic crimping machine	JN03S-A1-FX	3	38,275	114,825	Year 1	114,825	-	-	-	-	-	-	-	-	-	114,825
3	Fully automatic crimping machine	JN01SS II	1	26,164	26,164	Year 1	26,164	-	-	-	-	-	-	-	-	-	26,164
4	Fully automatic crimping machine	JN03S-A1-FX	1	11,632	11,632	Year 2	-	11,632	-	-	-	-	-	-	-	-	11,632
5	Fully automatic crimping machine	JN03S-A1-FX	1	21,356	21,356	Year 2	-	21,356	-	-	-	-	-	-	-	-	21,356
6	Fully automatic crimping machine	JN03S-A1-FX	1	39,806	39,806	Year 2	-	39,806	-	-	-	-	-	-	-	-	39,806
7	Fully automatic crimping machine	TR201	1	28,000	28,000	Year 2	-	28,000	-	-	-	-	-	-	-	-	28,000
8	Fully automatic crimping machine	TR201	1	21,866	21,866	Year 3	-	-	21,866	-	-	-	-	-	-	-	21,866
9	Fully automatic crimping machine	TR201	1	30,125	30,125	Year 3	-	-	30,125	-	-	-	-	-	-	-	30,125
10	Fully automatic crimping machine	TR201	1	30,125	30,125	Year 4	-	-	-	30,125	-	-	-	-	-	-	30,125
11	Fully automatic crimping machine	TR201	1	31,709	31,709	Year 4	-	-	-	31,709	-	-	-	-	-	-	31,709
12	Fully automatic crimping machine	TR201	1	31,709	31,709	Year 5	-	-	-	-	31,709	-	-	-	-	-	31,709
13	Fully automatic crimping machine	TR201	1	8,896	8,896	Year 5	-	-	-	-	8,896	-	-	-	-	-	8,896
14	Fully automatic crimping machine	TR201	1	13,294	13,294	Year 5	-	-	-	-	13,294	-	-	-	-	-	13,294
15	Fully automatic crimping machine	JN07SD	1	49,083	49,083	Year 6	-	-	-	-	-	49,083	-	-	-	-	49,083
16	Fully automatic crimping machine	JN07SD	1	49,083	49,083	Year 6	-	-	-	-	-	49,083	-	-	-	-	49,083
17	Fully automatic crimping machine	JN07SDW-H	1	86,782	86,782	Year 7	-	-	-	-	-	-	86,782	-	-	-	86,782
18	Fully automatic crimping machine	JN07SDW-H	1	86,782	86,782	Year 7	-	-	-	-	-	-	86,782	-	-	-	86,782
19	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	-	8,609	-	-	-	-	-	-	-	-	8,609
20	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	-	8,609	-	-	-	-	-	-	-	-	8,609
21	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	-	8,609	-	-	-	-	-	-	-	-	8,609
			23		718,061		151,985	126,622	51,990	61,834	53,899	98,165	173,565	-	-	-	718,061

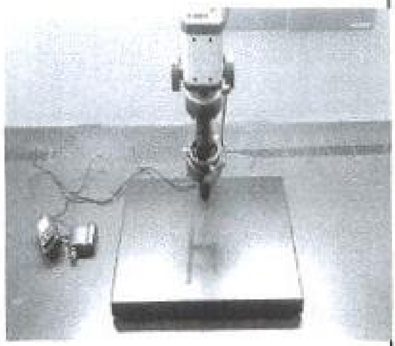
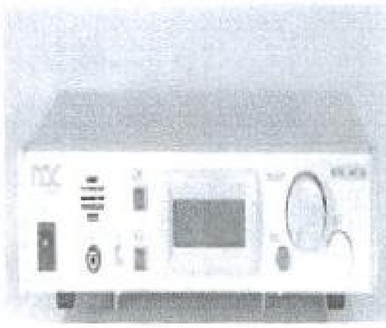
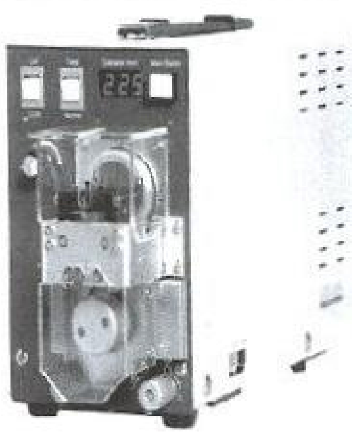
Annex D List of New Machinery, Tool and Equipment (Pictures)

No.	Particular	Model	Picture	Usage	Product	Quantity
1	Fuel tank	1000L		Savings for the generator fuel	All product	1
2	Fuel tank	8000L		Savings for the generator fuel	All product	1
3~6	Casting Machine	C370A (Accessories set)		cut of wire	All product	8
7 ~10	Reel stand	HK-007		Wire hanging	All product	8

Annex D List of New Machinery, Tool and Equipment (Pictures)

No.	Particular	Model	Picture	Usage	Product	Quantity
11 ~ 14	Semi-automatic crimping machine	CM-2000QPE(Accessories set)		Pressure bonding of wire	All product	12
15 ~ 24	Applicator	Needs to be considered by the production Number		Pressure bonding of wire	All product	74
25	Microscope	CJK-01		Inspection or products	All product	2

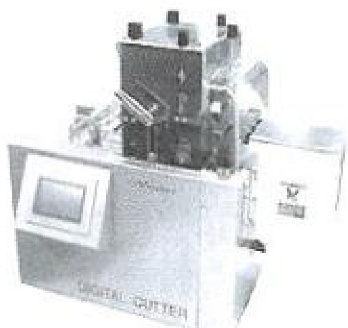
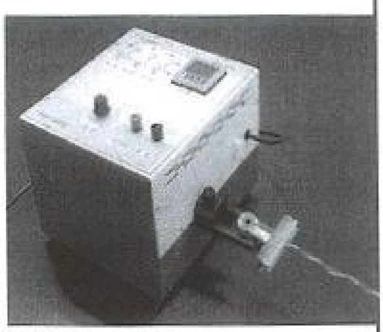
Annex D List of New Machinery, Tool and Equipment (Pictures)

No.	Particular	Model	Picture	Usage	Product	Quantity
26 ~ 30	Microscope	Inspection camera		Inspection or products	All product	14
31	Checker	NACMAN NMC128		Inspection or products	All product	4
32 ~ 34	Checker	NACMAN NMG64		Inspection or products	All product	4
35	Storip Machine	COSMIC 927R		Storip of wire	All product	1

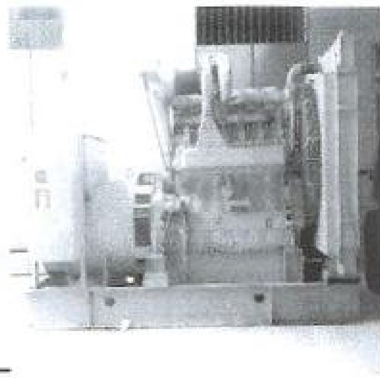
Annex D List of New Machinery, Tool and Equipment (Pictures)

No.	Particular	Model	Picture	Usage	Product	Quantity
36 ~ 37	Storip Machine	ZKS-12		Storip of wire	All product	3
38	Air Compressor	22kw Capacity (Unknown models)		Supply of air pressure For automatic machine operation	All product	2
39	Air tank	400L Capacity (Unkown models)		Supply of air pressure For automatic machine operation	All product	1

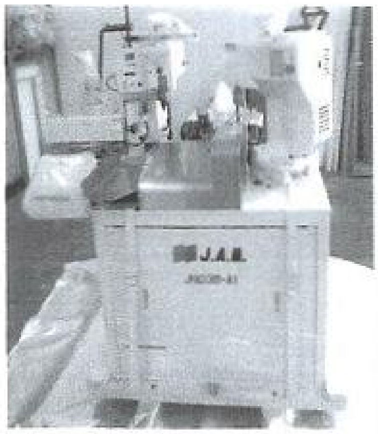
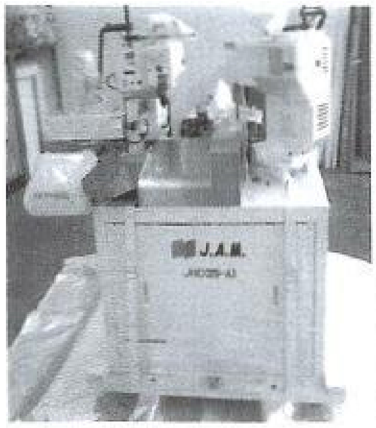
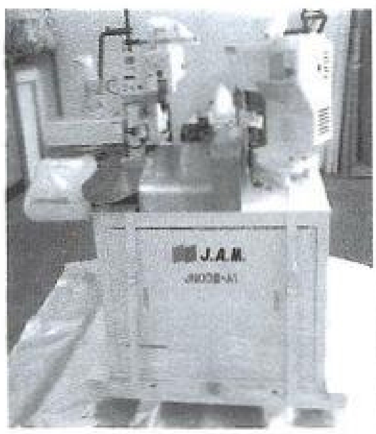
Annex D List of New Machinery, Tool and Equipment (Pictures)

No.	Particular	Model	Picture	Usage	Product	Quantity
40	UPS	(Unkown models) SMU-HB152-R-200 200V1.5KVA		Emergency power	All product	1
41 ~ 46	Checker	NACMAN NMC60			All product	16
47	Digital cutter	ZKC-25			All product	1
48~ 50	Wire twist machine	HK-029			All product	8

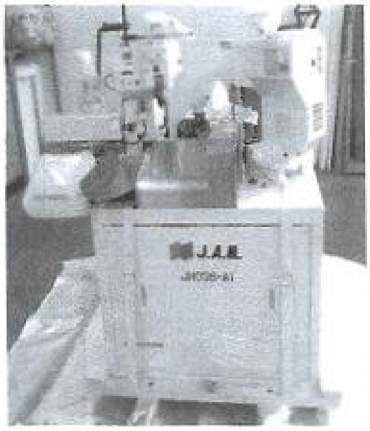
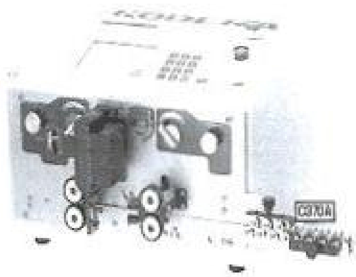
Annex D List of Reconditioned Machine (Pictures)

No.	Particular	Model	Picture	Usage	Product	Quantity
1	Generator			Power generation	All product	1
2	Fully automatic crimping machine	JN03S-A1-FX		Pressure bonding of wire	All product	3
3	Fully automatic crimping machine	JN01SS II		Pressure bonding of wire	All product	1

Annex D List of Reconditioned Machine (Pictures)

4 ~ 6	Fully automatic crimping machine	JN03S-A1-FX			All product	3
7 ~ 14	Fully automatic crimping machine	TR201			All product	8
15 ~ 16	Fully automatic crimping machine	JN07SD			All product	2

Annex D List of Reconditioned Machine (Pictures)

17 ~ 18	Fully automatic crimping machine	JN07SDW-H			All product	2
19 ~ 21	Fully automatic crimping machine	C370A (Accessories set)			All product	3

Y3

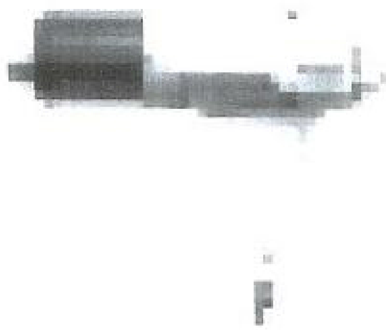
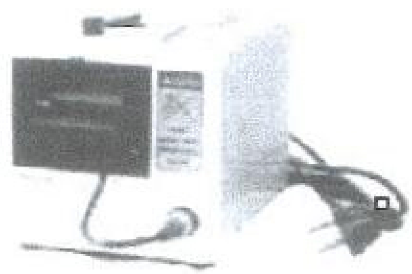
DENSO INDUSTRY YANGON LIMITED

Annex E-1 List of Factory Accessories (100% Locally Purchased)

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
1	Industrial dryer	HAKKO 881	3	1,400	4,200	Year 1	4,200	-	-	-	-	-	-	-	-	-	4,200
2	Industrial dryer	HAKKO 881	3	1,400	4,200	Year 2	-	4,200	-	-	-	-	-	-	-	-	4,200
3	Industrial dryer	HAKKO 881	2	1,400	2,800	Year 4	-	-	-	2,800	-	-	-	-	-	-	2,800
4	Solder bath	HAKKO 93	6	1,250	7,500	Year 1	7,500	-	-	-	-	-	-	-	-	-	7,500
5	Solder bath	HAKKO 93	10	1,250	12,500	Year 2	-	12,500	-	-	-	-	-	-	-	-	12,500
6	Solder bath	HAKKO 93	5	1,250	6,250	Year 3	-	-	6,250	-	-	-	-	-	-	-	6,250
7	Solder bath	HAKKO 93	5	1,250	6,250	Year 4	-	-	-	6,250	-	-	-	-	-	-	6,250
8	Tape cutter	SLD-M2000	4	230	920	Year 1	920	-	-	-	-	-	-	-	-	-	920
9	Tape cutter	SLD-M2000	10	230	2,300	Year 2	-	2,300	-	-	-	-	-	-	-	-	2,300
10	Tape cutter	SLD-M2000	5	230	1,150	Year 3	-	-	1,150	-	-	-	-	-	-	-	1,150
11	Tape cutter	SLD-M2000	5	230	1,150	Year 4	-	-	-	1,150	-	-	-	-	-	-	1,150
12	Soldering Iron	FX-888	2	210	420	Year 1	420	-	-	-	-	-	-	-	-	-	420
13	Soldering Iron	FX-888	2	210	420	Year 2	-	420	-	-	-	-	-	-	-	-	420
14	Tip thermometer	FG-100	1	266	266	Year 1	266	-	-	-	-	-	-	-	-	-	266
15	Solder thermometer	FG-101 A1310	1	1,223	1,223	Year 1	1,223	-	-	-	-	-	-	-	-	-	1,223
16	Solder thermometer	FG-101 A1310	1	1,223	1,223	Year 2	-	1,223	-	-	-	-	-	-	-	-	1,223
17	Loupe	Ten times	4	80	320	Year 1	320	-	-	-	-	-	-	-	-	-	320
18	Magnifying glass	Four times	4	110	440	Year 1	440	-	-	-	-	-	-	-	-	-	440
19	Magnifying glass	Four times	10	110	1,100	Year 2	-	1,100	-	-	-	-	-	-	-	-	1,100
20	Magnifying glass	Four times	5	110	550	Year 3	-	-	550	-	-	-	-	-	-	-	550
21	Magnifying glass	Four times	5	110	550	Year 4	-	-	-	550	-	-	-	-	-	-	550
22	Electronic scale	0.01g Unit (600g)	2	410	820	Year 1	820	-	-	-	-	-	-	-	-	-	820
23	Electronic scale	0.01g Unit (600g)	2	410	820	Year 2	-	820	-	-	-	-	-	-	-	-	820
24	Tester		1	55	55	Year 1	55	-	-	-	-	-	-	-	-	-	55
25	Micrometer	MITSUTOYO model	3	500	1,500	Year 1	1,500	-	-	-	-	-	-	-	-	-	1,500
26	Micrometer	MITSUTOYO model	3	500	1,500	Year 2	-	1,500	-	-	-	-	-	-	-	-	1,500
27	Micrometer	MITSUTOYO model	3	500	1,500	Year 3	-	-	1,500	-	-	-	-	-	-	-	1,500
28	Milling machine	Jig	1	1,109	1,109	Year 1	1,109	-	-	-	-	-	-	-	-	-	1,109

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
29	Grinder Thunder	Jig	1	388	388	Year 1	388	-	-	-	-	-	-	-	-	-	388
30	Vernier caliper	MITSUTOYO model	2	140	280	Year 1	280	-	-	-	-	-	-	-	-	-	280
31	Block Gauge	MITSUTOYO model (Calibration)	1	200	200	Year 1	200	-	-	-	-	-	-	-	-	-	200
32	General Tools set		2	300	600	Year 1	600	-	-	-	-	-	-	-	-	-	600
33	Dedicated Tools set	Plumbing,Electric screwdriver,Drill,etc.	1	388	388	Year 1	388	-	-	-	-	-	-	-	-	-	388
34	Allen wrench (mm)		3	60	180	Year 1	180	-	-	-	-	-	-	-	-	-	180
35	Allen wrench (mm)		2	60	120	Year 2	-	120	-	-	-	-	-	-	-	-	120
36	Allen wrench (mm)		2	60	120	Year 3	-	-	120	-	-	-	-	-	-	-	120
37	Allen wrench (inch full set)		2	120	240	Year 1	240	-	-	-	-	-	-	-	-	-	240
38	Allen wrench (inch full set)		1	120	120	Year 3	-	-	120	-	-	-	-	-	-	-	120
39	Bacuum Sealer	V-301W	1	1,886	1,886	Year 1	1,886	-	-	-	-	-	-	-	-	-	1,886
40	Bacuum Sealer	V-301W	1	1,886	1,886	Year 2	-	1,886	-	-	-	-	-	-	-	-	1,886
41	Slidax		1	453	453	Year 1	453	-	-	-	-	-	-	-	-	-	453
42	Transformer	200v→100v	2	45	90	Year 1	90	-	-	-	-	-	-	-	-	-	90
43	Transformer	200v→100v	5	45	225	Year 2	-	225	-	-	-	-	-	-	-	-	225
44	Stainless scale	150mm・500mm・1000mm etc	1	444	444	Year 1	444	-	-	-	-	-	-	-	-	-	444
45	Stainless scale	150mm・500mm・1000mm etc	1	444	444	Year 2	-	444	-	-	-	-	-	-	-	-	444
46	Packing machine	(band binding machine)	1	1,498	1,498	Year 1	1,498	-	-	-	-	-	-	-	-	-	1,498
47	Air coupler		1	666	666	Year 1	666	-	-	-	-	-	-	-	-	-	666
48	Air coupler		1	666	666	Year 2	-	666	-	-	-	-	-	-	-	-	666
49	Time recorder		2	439	878	Year 1	878	-	-	-	-	-	-	-	-	-	878
50	Time recorder		2	439	878	Year 3	-	-	878	-	-	-	-	-	-	-	878
51	Chime timer	TOA TT-104B	1	710	710	Year 1	710	-	-	-	-	-	-	-	-	-	710
52	LAN cable,Communication set		1	1,664	1,664	Year 1	1,664	-	-	-	-	-	-	-	-	-	1,664
53	Air gun		2	35	70	Year 1	70	-	-	-	-	-	-	-	-	-	70
54	Air gun	TRUSCO MAG22	2	115	230	Year 1	230	-	-	-	-	-	-	-	-	-	230
55	Grease gun		2	30	60	Year 1	60	-	-	-	-	-	-	-	-	-	60
56	Tensile tester	LH-500N	1	1,310	1,310	Year 1	1,310	-	-	-	-	-	-	-	-	-	1,310
57	Electric drill		1	70	70	Year 1	70	-	-	-	-	-	-	-	-	-	70
58	Drill set		2	65	130	Year 1	130	-	-	-	-	-	-	-	-	-	130
			158		79,930		31,208	27,403	10,568	10,750	-	-	-	-	-	-	79,930

Annex E List of Factory Accessories (Pictures)

No.	Particular	Model	Picture	Usage	Product	Quantity
1 ~ 3	Industrial dryer	HAKKO 881		Thermal contraction of the tube	All	8
4 ~ 7	Solder bath	HAKKO 93		Solder work	All	26
8 ~ 11	Tape cutter	SLD-M2000		Cut of tape	All	24
12 ~ 13	Soldering Iron	FX-888		Solder work	All	4

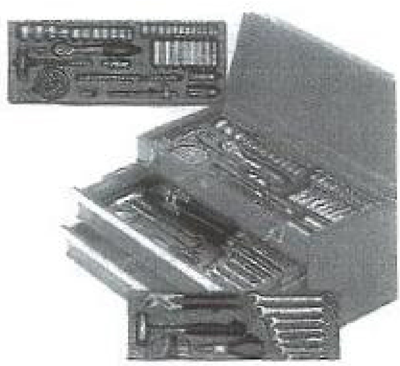
Annex E List of Factory Accessories (Pictures)

14	Tip thermometer	FG-100		Tip thermometer	All	1
15 ~ 16	Solder thermometer	FG-101 A1310		Solder thermometer	All	2
17	Loupe	Ten times		Inspection or products	All	4
18 ~ 21	Magnifying glass	Four times		Inspection or products	All	24

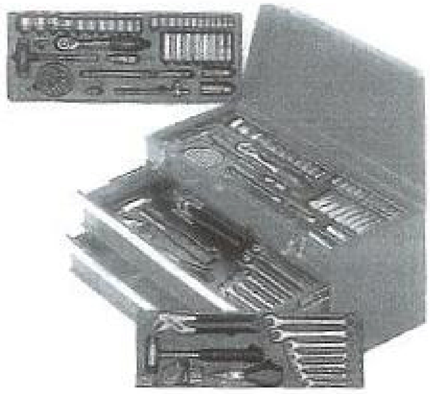
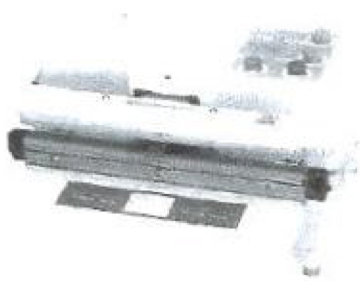
Annex E List of Factory Accessories (Pictures)

22 ~ 23	Electronic scale	0.01g Unit (600g)		Quantity measurement	All	4
24	Tester	(Unknow n models)		Current check of equipment	All	1
25 ~ 27	Micrometer	MITSUTO YO model		Inspection or products	All	9
28	Milling machine	(Unknow n models) Jig		Tool created	All	1

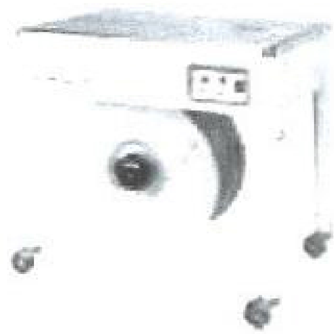
Annex E List of Factory Accessories (Pictures)

29	Grinder Thunder	(Unknown models) Jig		Tool created	All	1
30	Vernier caliper	MITSUTOYO model		Tool created	All	2
31	Block Gauge	MITSUTOYO model (Calibration)		Tool calibration	All	1
32	General Tools set			Maintenance	All	2

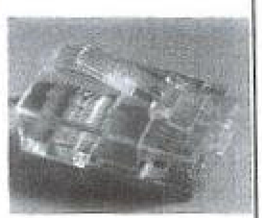
Annex E List of Factory Accessories (Pictures)

33	Dedicated Tools set	Plumbing, Electric screwdriver,Drill,etc.		Maintenance	All	1
34 ~ 36	Allen wrench (mm)			Maintenance	All	7
37 ~ 38	Allen wrench (inch full set)			Maintenance	All	3
39 ~ 40	Bacuum Sealer	V-301W		Packing	All	2

Annex E List of Factory Accessories (Pictures)

41	Slidax			Voltage adjustment device	All	1
42 ~ 43	Transformer			Voltage adjustment device	All	7
44 ~ 45	Stainless scale			Inspection or products	All	2
46	Packing machine(band binding machine)			Packing	All	1

Annex E List of Factory Accessories (Pictures)

47 ~ 48	Air coupler			Parts of compressor	All	2
49 ~ 50	Time recorder			Attendance management	All	4
51	Chime timer			Attendance management	All	1
52	LAN cable,Communication set other		 	Net work parts in factory	All	1

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Annex F-1 List of Office Accessories (100% Locally Purchased)

No.	DESCRIPTION	MODEL	Quantity	Unit Price (US$)	Total Price (US$)	Year of Installment	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
1	Projector		1	533	533	Year 1	533	-	-	-	-	-	-	-	-	-	533
2	Personal computer		8	600	4,800	Year 1	4,800	-	-	-	-	-	-	-	-	-	4,800
3	Personal computer		2	600	1,200	Year 3	-	-	1,200	-	-	-	-	-	-	-	1,200
4	Air conditioning	1.5 horsepower	3	1,150	3,450	Year 1	3,450	-	-	-	-	-	-	-	-	-	3,450
5	Air conditioning	3 horsepower	13	1,600	20,800	Year 1	20,800	-	-	-	-	-	-	-	-	-	20,800
6	Air conditioning	3 horsepower	6	1,600	9,600	Year 2	-	9,600	-	-	-	-	-	-	-	-	9,600
7	Multifunction device		1	5,333	5,333	Year 1	5,333	-	-	-	-	-	-	-	-	-	5,333
8	Color printer		2	160	320	Year 1	320	-	-	-	-	-	-	-	-	-	320
9	Color printer		1	160	160	Year 2	-	160	-	-	-	-	-	-	-	-	160
10	Laser printer	A3 corresponding	2	650	1,300	Year 1	1,300	-	-	-	-	-	-	-	-	-	1,300
11	Laser printer	A3 corresponding	1	650	650	Year 2	-	650	-	-	-	-	-	-	-	-	650
12	Office desks and chairs		8	200	1,600	Year 1	1,600	-	-	-	-	-	-	-	-	-	1,600
13	GM desk and chair		1	320	320	Year 1	320	-	-	-	-	-	-	-	-	-	320
14	Reception set		1	1,056	1,056	Year 1	1,056	-	-	-	-	-	-	-	-	-	1,056
15	Meeting table set		1	371	371	Year 1	371	-	-	-	-	-	-	-	-	-	371
16	Work desk		10	60	600	Year 1	600	-	-	-	-	-	-	-	-	-	600
17	Work desk		10	60	600	Year 2	-	600	-	-	-	-	-	-	-	-	600
18	Work chair		30	90	2,700	Year 1	2,700	-	-	-	-	-	-	-	-	-	2,700
19	Work chair		10	90	900	Year 2	-	900	-	-	-	-	-	-	-	-	900
20	Bench mat		1	800	800	Year 1	800	-	-	-	-	-	-	-	-	-	800
21	Bookshelf		4	250	1,000	Year 1	1,000	-	-	-	-	-	-	-	-	-	1,000
22	Chair		70	10	700	Year 1	700	-	-	-	-	-	-	-	-	-	700
23	Chair		100	10	1,000	Year 2	-	1,000	-	-	-	-	-	-	-	-	1,000
24	Chair		110	10	1,100	Year 3	-	-	1,100	-	-	-	-	-	-	-	1,100
25	Chair		60	10	600	Year 4	-	-	-	600	-	-	-	-	-	-	600
26	Chair		50	10	500	Year 5	-	-	-	-	500	-	-	-	-	-	500
27	Chair		50	10	500	Year 6	-	-	-	-	-	500	-	-	-	-	500
28	Chair		70	10	700	Year 7	-	-	-	-	-	-	700	-	-	-	700
29	Chair		100	10	1,000	Year 8	-	-	-	-	-	-	-	1,000	-	-	1,000
30	Chair		100	10	1,000	Year 9	-	-	-	-	-	-	-	-	1,000	-	1,000
31	Chair		100	10	1,000	Year 10	-	-	-	-	-	-	-	-	-	1,000	1,000
32	Locker(12persons)		7	100	700	Year 1	700	-	-	-	-	-	-	-	-	-	700
33	Locker(12persons)		5	100	500	Year 2	-	500	-	-	-	-	-	-	-	-	500
34	Locker(12persons)		5	100	500	Year 3	-	-	500	-	-	-	-	-	-	-	500
35	Locker(12persons)		5	100	500	Year 4	-	-	-	500	-	-	-	-	-	-	500
36	Locker(12persons)		7	100	700	Year 5	-	-	-	-	700	-	-	-	-	-	700
37	Locker(12persons)		5	100	500	Year 6	-	-	-	-	-	500	-	-	-	-	500
38	Locker(12persons)		2	100	200	Year 7	-	-	-	-	-	-	200	-	-	-	200
39	Locker(12persons)		2	100	200	Year 9	-	-	-	-	-	-	-	-	200	-	200
40	Locker(12persons)		5	100	500	Year 10	-	-	-	-	-	-	-	-	-	500	500
41	Tray		50	10	500	Year 1	500	-	-	-	-	-	-	-	-	-	500
42	Work table(lines)		46	100	4,600	Year 1	4,600	-	-	-	-	-	-	-	-	-	4,600
43	Work table(lines)		40	100	4,000	Year 2	-	4,000	-	-	-	-	-	-	-	-	4,000
44	Work table(lines)		40	100	4,000	Year 3	-	-	4,000	-	-	-	-	-	-	-	4,000
45	Warehouse shelf		11	250	2,750	Year 1	2,750	-	-	-	-	-	-	-	-	-	2,750
46	Warehouse shelf		4	250	1,000	Year 2	-	1,000	-	-	-	-	-	-	-	-	1,000
47	Warehouse shelf		6	250	1,500	Year 3	-	-	1,500	-	-	-	-	-	-	-	1,500
			1166		88,844		54,234	18,410	8,300	1,100	1,200	1,000	900	1,000	1,200	1,500	88,844

Annex F List of Office Accessories (Pictures)

No.	Particular	Photo	Quantity
1	Projector		1
2 ~ 3	Personal computer		10
4	Air conditioning (1.5 horse power)		3
5-6	Air conditioning (3 horse power)		19
7	Multifunction device		1

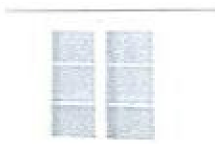
Annex F List of Office Accessories (Pictures)

8 ~ 9	Color printer		3
10 ~ 11	Laser printer		3
12	Office desks and chairs		8
13	GM desk and chair		1

Annex F List of Office Accessories (Pictures)

14	Reception set		1
15	Meeting table set		1
16 ~ 17	Work desk		20
18 ~ 19	Work chair		40
20	Bench mat		1

Annex F List of Office Accessories (Pictures)

21	Bookshelf		4
22 ~ 31	Chair		810
32 ~ 40	Locker (12persons)		43
41	Tray		50

Annex G

DENSO INDUSTRY YANGON LIMITED

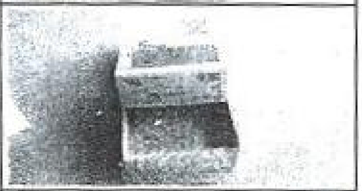
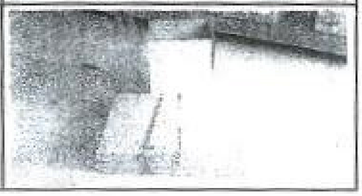
(100% Imported Items)

Annex H-1.1.1 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - IDT Harness

NO	Item	Unit	Standard Quantity (unit)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
				Production Forecast of Finished Goods(units) IDT-Harness									
				190,080	**871,200**	**1,135,200**	**1,320,000**	**1,452,000**	**1,716,000**	**2,244,000**	**2,772,000**	**3,036,000**	**3,300,000**
				Forecast of Required Raw Material(Units)									
1	Wire	Meter	0.04000000	7,603	34,848	45,408	52,800	58,080	68,640	89,760	110,880	121,440	132,000
2	Connector	Pcs	2.00000000	380,160	1,742,400	2,270,400	2,640,000	2,904,000	3,432,000	4,488,000	5,544,000	6,072,000	6,600,000
3	Packing bag	Sheet	0.00500000	950	4,356	5,676	6,600	7,260	8,580	11,220	13,860	15,180	16,500
4	Packing box	Box	0.00050000	95	436	568	660	726	858	1,122	1,386	1,518	1,650
5	Blade	Sheet	0.00003382	6	29	38	45	49	58	76	94	103	112
6	Wrap	Roll	0.00000100	0	1	1	1	1	2	2	3	3	3
7	Bag Label	Sheet	0.00500000	950	4,356	5,676	6,600	7,260	8,580	11,220	13,860	15,180	16,500
8	Box Label	Sheet	0.00050000	95	436	568	660	726	858	1,122	1,386	1,518	1,650
9	Silicagel	Pcs	0.00500000	950	4,356	5,676	6,600	7,260	8,580	11,220	13,860	15,180	16,500
10	Aircap	Sheet	0.00050000	95	436	568	660	726	858	1,122	1,386	1,518	1,650
Total				390,906	1,791,653	2,334,578	2,714,626	2,986,089	3,529,014	4,614,864	5,700,715	6,243,640	6,786,565

* IDT = Insulator Displacing Termination

Annex H.1.1.2 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - IDT Harness

No.	Item	Unit	Standard Quantity (unit)	Picture
1	Wire	Meter	0.040	
2	Connector	Piece	2.000	
3	Packing bag	Sheet	0.005	
4	Packing box	Box	0.001	

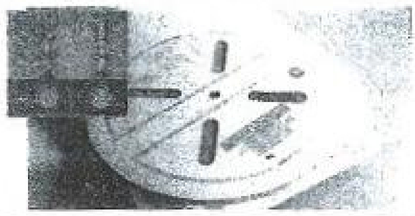
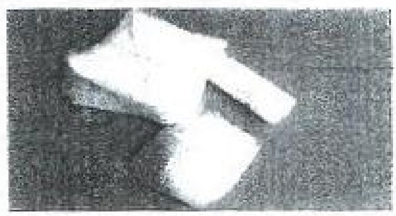
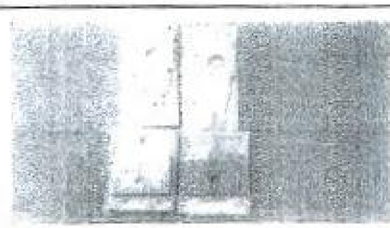
DENSO INDUSTRY YANGON LIMITED

Annex H-1.2.1 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Crimping harness

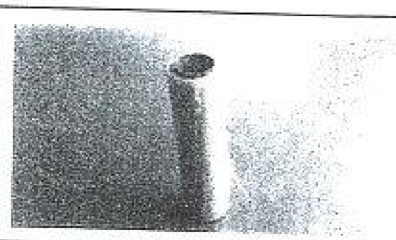
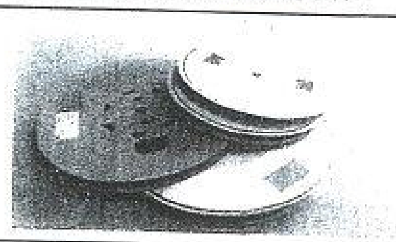
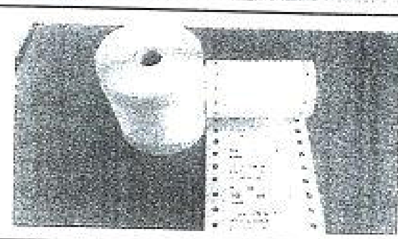
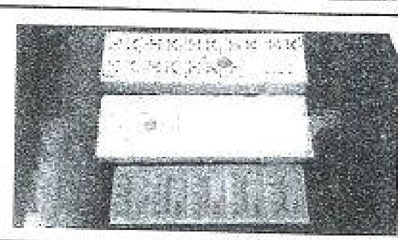
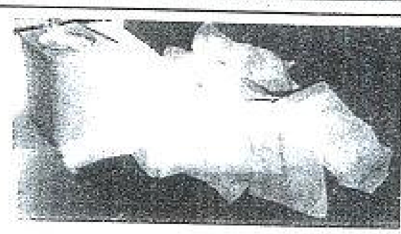
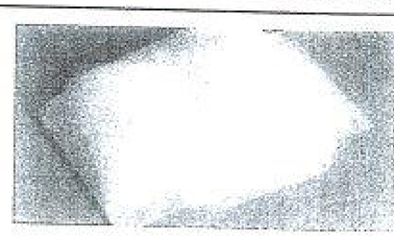
(100% Imported Items)

NO	Item	Unit	Std Qty (unit)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
				Production Forecast of Finished Goods(units) Crimping harness									
				1,811,931	8,304,686	10,821,257	12,582,857	13,841,143	16,357,714	21,390,857	26,424,000	28,940,571	31,457,143
				Forecast of Required Raw Material(Units)									
1	Wire	Meter	0.040	72,477	332,187	432,850	503,314	553,646	654,309	855,634	1,056,960	1,157,623	1,258,286
2	Connector	Pcs	2.000	3,623,863	16,609,371	21,642,514	25,165,714	27,682,286	32,715,429	42,781,714	52,848,000	57,881,143	62,914,286
3	Terminal	Pcs	8.000	14,495,451	66,437,486	86,570,057	100,662,857	110,729,143	130,861,714	171,126,857	211,392,000	231,524,571	251,657,143
4	Packing bag	Sheet	0.005	9,060	41,523	54,106	62,914	69,206	81,789	106,954	132,120	144,703	157,286
5	Packing box	Box	0.001	906	4,152	5,411	6,291	6,921	8,179	10,695	13,212	14,470	15,729
6	Blade	Sheet	0.000	61	281	366	426	468	553	723	894	979	1,064
7	Wrap	Roll	0.000	18	83	108	126	138	164	214	264	289	315
8	Tube	Meter	0.020	36,239	166,094	216,425	251,657	276,823	327,154	427,817	528,480	578,811	629,143
9	Bag Label	Sheet	0.005	9,060	41,523	54,106	62,914	69,206	81,789	106,954	132,120	144,703	157,286
10	Box Label	Sheet	0.001	906	4,152	5,411	6,291	6,921	8,179	10,695	13,212	14,470	15,729
11	Silicagel	Pcs	0.005	9,060	41,523	54,106	62,914	69,206	81,789	106,954	132,120	144,703	157,286
12	Aircap	Sheet	0.001	906	4,152	5,411	6,291	6,921	8,179	10,695	13,212	14,470	15,729
Total				18,258,006	83,682,529	109,040,872	126,791,711	139,470,882	164,829,225	215,545,909	266,262,594	291,620,936	316,979,278

Annex H-1.2.2 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Crimping harness

NO	Item	Unit	Standard Quantity (unit)	Picture
1	Wire	Meter	0.040	
2	Connector	Piece	2.000	
3	Terminal	Piece	8.000	
4	Packing bag	Sheet	0.005	
5	Packing box	Box	0.001	
6	Blade	Sheet	0.000	

Annex H-1.2.2 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Crimping harness

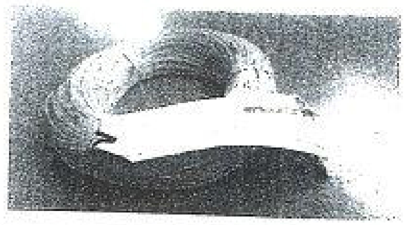
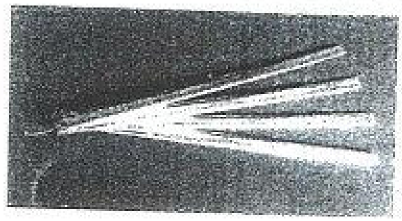
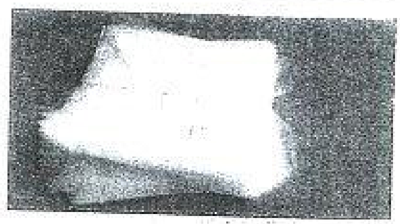
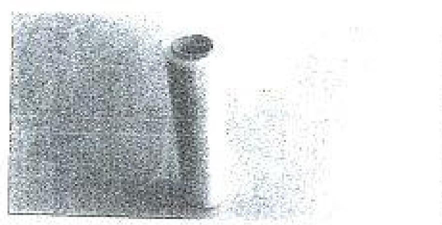
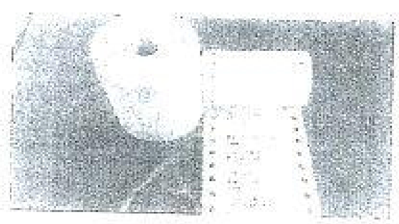
NO	Item	Unit	Standard Quantity (unit)	Picture
7	Wrap	Roll	0.000	
8	Tube	Meter	0.020	
9	Bag Label	Sheet	0.005	
10	Box Label	Sheet	0.001	
11	Silicagel	Piece	0.005	
12	Aircap	Sheet	0.001	

DENSO INDUSTRY YANGON LIMITED (100% Imported Items)

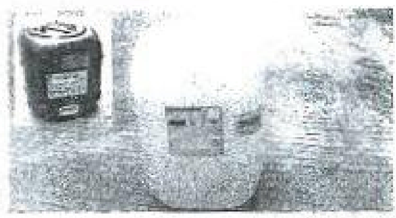
Annex H-1.3.1 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Solder harness

NO	Item	Unit	Standard Quantity (unit)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
				Production Forecast of Finished Goods(units) Solder harness									
				3,456,000	15,840,000	20,640,000	24,000,000	26,400,000	31,200,000	40,800,000	50,400,000	55,200,000	60,000,000
				Forecast of Required Raw Material(Units)									
1	Wire	Meter	0.040	138,240	633,600	825,600	960,000	1,056,000	1,248,000	1,632,000	2,016,000	2,208,000	2,400,000
2	Solder	Kg	0.000	691	3,168	4,128	4,800	5,280	6,240	8,160	10,080	11,040	12,000
3	Packing bag	Sheet	0.005	17,280	79,200	103,200	120,000	132,000	156,000	204,000	252,000	276,000	300,000
4	Packing box	Box	0.001	1,728	7,920	10,320	12,000	13,200	15,600	20,400	25,200	27,600	30,000
5	Wrap	Roll	0.000	2	8	10	12	13	16	20	25	28	30
6	Bag Label	Sheet	0.005	17,280	79,200	103,200	120,000	132,000	156,000	204,000	252,000	276,000	300,000
7	Box Label	Sheet	0.001	1,728	7,920	10,320	12,000	13,200	15,600	20,400	25,200	27,600	30,000
8	Silicagel	Pcs	0.005	17,280	79,200	103,200	120,000	132,000	156,000	204,000	252,000	276,000	300,000
9	Flux	18ℓ	0.000	1	3	4	5	5	6	8	10	11	12
10	Aircap	Sheet	0.001	1,728	7,920	10,320	12,000	13,200	15,600	20,400	25,200	27,600	30,000
Total				195,958	898,139	1,170,302	1,360,817	1,496,898	1,769,062	2,313,389	2,857,715	3,129,879	3,402,042

Annex H-1.3.2 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Solder harness

NO	Item	Unit	Standard Quantity (unit)	Picture
1	Wire	Meter	0.040	
2	Solder	Kg	0.000	
3	Packing bag	Sheet	0.005	
4	Packing box	Box	0.001	
5	Wrap	Roll	0.000	
6	Bag Label	Sheet	0.005	

Annex H-1.3.2 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Solder harness

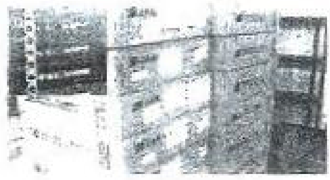
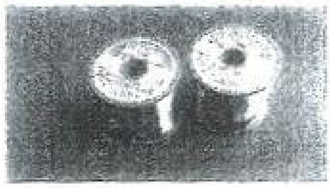
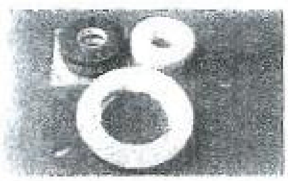
NO	Item	Unit	Standard Quantity (unit)	Picture
7	Box Label	Sheet	0.001	
8	Silicagel	Piece	0.005	
9	Flux	18ℓ	0.000	
10	Aircap	Sheet	0.001	

DENSO INDUSTRY YANGON LIMITED (100% Imported Items)

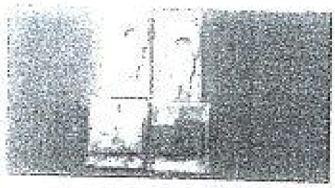
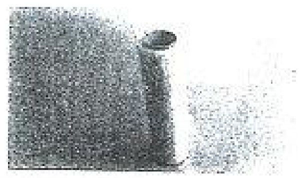
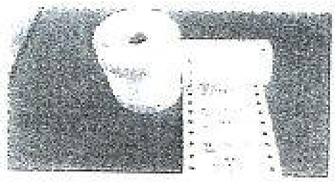
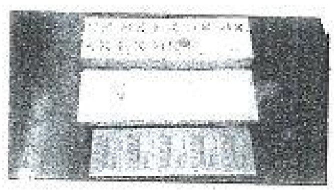
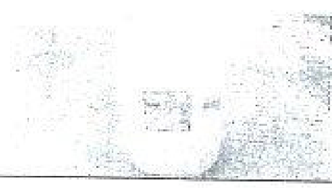
Annex H-1.4.1 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Other harn

NO	Item	Unit	Standard Quantity (unit)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
				Production Forecast of Finished Goods(units) Others harness									
				191,520	877,800	1,143,800	1,330,000	1,463,000	1,729,000	2,261,000	2,793,000	3,059,000	3,325,000
				Forecast of Required Raw Material(Units)									
1	Wire	Meter	0.040000	7,661	35,112	45,752	53,200	58,520	69,160	90,440	111,720	122,360	133,000
2	Connector	Pcs	2.000000	383,040	1,755,600	2,287,600	2,660,000	2,926,000	3,458,000	4,522,000	5,586,000	6,118,000	6,650,000
3	Terminal	Pcs	8.000000	1,532,160	7,022,400	9,150,400	10,640,000	11,704,000	13,832,000	18,088,000	22,344,000	24,472,000	26,600,000
4	Solder	Kg	0.001000	192	878	1,144	1,330	1,463	1,729	2,261	2,793	3,059	3,325
5	Band	Pcs	0.500000	95,760	438,900	571,900	665,000	731,500	864,500	1,130,500	1,396,500	1,529,500	1,662,500
6	Tape	Meter	0.030000	5,746	26,334	34,314	39,900	43,890	51,870	67,830	83,790	91,770	99,750
7	Packing bag	Sheet	0.500000	95,760	438,900	571,900	665,000	731,500	864,500	1,130,500	1,396,500	1,529,500	1,662,500
8	Packing box	Box	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
9	Blade	Sheet	0.000034	6	30	39	45	49	58	76	94	103	112
10	Wrap	Roll	0.000010	2	9	11	13	15	17	23	28	31	33
11	Tube	Meter	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
12	Bag Label	Sheet	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
13	Box Label	Sheet	0.010000	1,915	8,778	11,438	13,300	14,630	17,290	22,610	27,930	30,590	33,250
14	Silicagel	Pcs	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
15	Flux	18ℓ	0.000005	1	4	6	7	7	9	11	14	15	17
16	Label	Sheet	0.100000	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500
Total				2,218,002	10,165,845	13,246,404	15,402,795	16,943,074	20,023,633	26,184,751	32,345,869	35,426,428	38,506,987

Annex H-1.4.2 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Others harness

NO	Item	Unit	Standard Quantity (unit)	Picture
1	Wire	Meter	0.040	
2	Connector	Piece	2.000	
3	Terminal	Piece	8.000	
4	Solder	Kg	0.001	
5	Band	Piece	0.500	
6	Tape	Meter	0.030	
7	Packing bag	Sheet	0.500	
8	Packing box	Box	0.100	

Annex H-1.4.2 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Others harness

NO	Item	Unit	Standard Quantity (unit)	Picture
9	Blade	Sheet	0.000	
10	Wrap	Roll	0.000	
11	Tube	Meter	0.100	
12	Bag Label	Sheet	0.100	
13	Box Label	Sheet	0.010	
14	Silicagel	Piece	0.100	
15	Flux	18ℓ	0.000	
16	Label	Sheet	0.100	

DENSO INDUSTRY YANGON LIMITED

Annex H-2 List of annual Raw Materials, Packing Material - Usage of Norm

No	Particulars	Unit	IDT Harness	Crimping Harness	Solder Harness	Other Harness
1	Aircap	Sheet	0.000500000	0.000500000	0.000500000	
2	Bag Label	Sheet	0.005000000	0.005000000	0.005000000	0.100000000
3	Band	Pcs				0.500000000
4	Blade	Sheet	0.000033816	0.000033816		0.003381600
5	Box Label	Sheet	0.000500000	0.000500000	0.000500000	0.010000000
6	Connector	Pcs	2.000000000	2.000000000		2.000000000
7	Flux	18ℓ			0.000000200	0.000005000
8	Label	Sheet				0.100000000
9	Packing bag	Sheet	0.005000000	0.005000000	0.005000000	0.500000000
10	Packing box	Box	0.000500000	0.000500000	0.000500000	0.100000000
11	Silicagel	Pcs	0.005000000	0.005000000	0.005000000	0.100000000
12	Solder	Kg			0.000200000	0.001000000
13	Tape	Meter				0.030000000
14	Terminal	Pcs		8.000000000		8.000000000
15	Tube	Meter		0.020000000		0.100000000
16	Wire	Meter	0.040000000	0.040000000	0.040000000	0.040000000
17	Wrap	Roll	0.000001000	0.000010000	0.000000500	0.000010000
	Finished Good		1 unit	1 unit	1 unit	1 unit

DENSO INDUSTRY YANGON LIMITED

(100% Imported Items)

Annex H-3 List of annual Raw Materials, Packing Material and Factory Consumables (including wastage) - Total Quantity and Price

Unit

No	Particulars	Unit	Price	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
1	Aircap	Sheet	0.156	2,729	12,508	16,298	18,951	20,847	24,637	32,217	39,798	43,588	47,379	258,952
2	Bag Label	Sheet	0.770	46,442	212,859	277,362	322,514	354,766	419,269	548,274	677,280	741,783	806,286	4,406,835
3	Band	Pcs	0.025	95,760	438,900	571,900	665,000	731,500	864,500	1,130,500	1,396,500	1,529,500	1,662,500	9,086,560
4	Blade	Sheet	56.000	74	340	443	515	567	670	876	1,082	1,185	1,288	7,039
5	Box Label	Sheet	0.008	4,644	21,286	27,736	32,251	35,477	41,927	54,827	67,728	74,178	80,629	440,684
6	Connector	Pcs	0.030	4,387,063	20,107,371	26,200,514	30,465,714	33,512,286	39,605,429	51,791,714	63,978,000	70,071,143	76,164,286	416,283,520
7	Flux	18ℓ	250.00	2	8	10	11	13	15	19	24	26	29	156
8	Label	Sheet	0.008	19,152	87,780	114,380	133,000	146,300	172,900	226,100	279,300	305,900	332,500	1,817,312
9	Packing bag	Sheet	0.008	123,050	563,979	734,882	854,514	939,966	1,110,869	1,452,674	1,794,480	1,965,383	2,136,286	11,676,083
10	Packing box	Box	0.156	21,881	100,288	130,678	151,951	167,147	197,537	258,317	319,098	349,488	379,879	2,076,264
11	Silicagel	Pcs	0.002	46,442	212,859	277,362	322,514	354,766	419,269	548,274	677,280	741,783	806,286	4,406,835
12	Solder	Kg	50.000	883	4,046	5,272	6,130	6,743	7,969	10,421	12,873	14,099	15,325	83,760
13	Tape	Meter	0.300	5,746	26,334	34,314	39,900	43,890	51,870	67,830	83,790	91,770	99,750	545,194
14	Terminal	Pcs	0.019	16,027,611	73,459,886	95,720,457	111,302,857	122,433,143	144,693,714	189,214,857	233,736,000	255,996,571	278,257,143	1,520,842,240
15	Tube	Meter	0.191	55,391	253,874	330,805	384,657	423,123	500,054	653,917	807,780	884,711	961,643	5,255,955
16	Wire	Meter	0.339	225,981	1,035,747	1,349,610	1,569,314	1,726,246	2,040,109	2,667,834	3,295,560	3,609,423	3,923,286	21,443,110
17	Wrap	Roll	10.00	22	101	131	152	168	198	259	320	351	381	2,083
				21,062,873	96,538,166	125,792,156	146,269,949	160,896,944	190,150,934	248,658,913	307,166,893	336,420,883	365,674,873	1,998,632,583
	Total cost of purchase			623,394	2,857,223	3,723,049	4,329,126	4,762,039	5,627,864	7,359,515	9,091,165	9,956,990	10,822,815	

DENSO INDUSTRY YANGON LIMITED

Annex I-1 List of Local and Foreign Personnel And Their Salaries (per year)

Expressed in US$

Division	Position	Description	5 months in Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Administr ation Office	Director	Foreign Director	25,000	60,000	60,000	120,000	120,000	120,000	120,000	180,000	180,000	180,000	1,165,000
	Manager	Senior Mgr	5,000	12,000	12,000	14,400	14,400	15,600	16,800	18,000	18,000	18,000	144,200
		Accounting Mgr	1,500	7,200	7,200	9,600	9,600	10,800	12,000	12,000	12,000	14,400	96,300
	Superviso	General affairs Dept	1,500	3,600	7,200	8,400	8,400	12,600	16,800	21,000	21,000	24,000	124,500
		Materials/Customs Dep	1,500	7,200	10,800	12,600	12,600	16,800	19,200	27,000	27,000	36,000	170,700
	Staff	Direct Dept Assistant	0	12,000	31,200	45,000	45,000	50,400	72,000	82,800	105,000	105,000	548,400
		Interpreter	1,500	3,600	3,600	8,400	8,400	9,600	10,800	18,000	18,000	18,000	99,900
		Cleaning person	450	2,160	2,160	2,160	2,280	3,600	3,780	5,280	5,520	7,200	34,590
	Sub-total		36,450	107,760	134,160	220,560	220,680	239,400	271,380	364,080	386,520	402,600	2,383,590
Factory	Manager	Product Mgr	1,500	3,600	3,600	4,800	4,800	4,800	5,400	5,400	6,000	6,000	45,900
		Product Technology M	1,500	3,600	3,600	4,800	4,800	4,800	5,400	5,400	6,000	6,000	45,900
		Product Control Mgr	1,500	3,600	3,600	4,800	4,800	4,800	5,400	5,400	6,000	6,000	45,900
		Quality Control Mgr	1,500	3,600	3,600	4,800	4,800	4,800	5,400	5,400	6,000	6,000	45,900
	Labor	Production Workers	22,500	194,400	302,400	376,200	456,000	567,600	720,000	1,014,000	1,176,000	1,440,000	6,269,100
	Sub-total		28,500	208,800	316,800	395,400	475,200	586,800	741,600	1,035,600	1,200,000	1,464,000	6,452,700
Total			64,950	316,560	450,960	615,960	695,880	826,200	1,012,980	1,399,680	1,586,520	1,866,600	8,836,290

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DENSO INDUSTRY YANGON LIMITED

Annex I-2 Details of Local and Foreign Personnel And Their Salaries (per year)

xpressed in US$

(Unit: USD)

			5 months in Year 1			Year 2			Year 3			Year 4			Year 5			Year 6			Year 7			Year 8			Year 9			Year 10		
Division	Position	Description	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary	Person	Salary	Total Salary
Administration Office	Director	Foreign Director	1	5,000	25,000	1	5,000	60,000	1	5,000	60,000	2	5,000	120,000	2	5,000	120,000	2	5,000	120,000	2	5,000	120,000	3	5,000	180,000	3	5,000	180,000	3	5,000	180,000
	Manager	Senior Mgr	2	500	5,000	2	500	12,000	2	500	12,000	2	600	14,400	2	600	14,400	2	650	15,600	2	700	16,800	2	750	18,000	2	750	18,000	2	750	18,000
		Accounting Mgr	1	300	1,500	2	300	7,200	2	300	7,200	2	400	9,600	2	400	9,600	2	450	10,800	2	500	12,000	2	500	12,000	2	500	12,000	2	600	14,400
	Superviso	General affairs Dept	1	300	1,500	1	300	3,600	2	300	7,200	2	350	8,400	2	350	8,400	3	350	12,600	4	350	16,800	5	350	21,000	5	350	21,000	5	400	24,000
		Materials/Customs Dept	1	300	1,500	2	300	7,200	3	300	10,800	3	350	12,600	3	350	12,600	4	350	16,800	4	400	19,200	5	450	27,000	5	450	27,000	6	500	36,000
	Staff	Direct Dept Assistant	0	0	0	5	200	12,000	13	200	31,200	15	250	45,000	15	250	45,000	15	280	50,400	20	300	72,000	23	300	82,800	25	350	105,000	25	350	105,000
		Interpreter	1	300	1,500	1	300	3,600	1	300	3,600	2	350	8,400	2	350	8,400	2	400	9,600	2	450	10,800	3	500	18,000	3	500	18,000	3	500	18,000
		Cleaning person	1	90	450	2	90	2,160	2	90	2,160	2	90	2,160	2	95	2,280	3	100	3,600	3	105	3,780	4	110	5,280	4	115	5,520	5	120	7,200
	Sub-total		8	6,790	36,450	16	6,990	107,760	26	6,990	134,160	30	7,390	220,560	30	7,395	220,680	33	7,580	239,400	39	7,805	271,380	47	7,960	364,080	49	8,015	386,520	51	8,220	402,600
Factory	Manager	Product Mgr	1	300	1,500	1	300	3,600	1	300	3,600	1	400	4,800	1	400	4,800	1	400	4,800	1	450	5,400	1	450	5,400	1	500	6,000	1	500	6,000
		Product Technology Mgr	1	300	1,500	1	300	3,600	1	300	3,600	1	400	4,800	1	400	4,800	1	400	4,800	1	450	5,400	1	450	5,400	1	500	6,000	1	500	6,000
		Product Control Mgr	1	300	1,500	1	300	3,600	1	300	3,600	1	400	4,800	1	400	4,800	1	400	4,800	1	450	5,400	1	450	5,400	1	500	6,000	1	500	6,000
		Quality Control Mgr	1	300	1,500	1	300	3,600	1	300	3,600	1	400	4,800	1	400	4,800	1	400	4,800	1	450	5,400	1	450	5,400	1	500	6,000	1	500	6,000
	Labor	Production Workers	50	90	22,500	180	90	194,400	280	90	302,400	330	95	376,200	380	100	456,000	430	110	567,600	500	120	720,000	650	130	1,014,000	700	140	1,176,000	800	150	1,440,000
	Sub-total		54	1,290	28,500	184	1,290	208,800	284	1,290	316,800	334	1,695	395,400	384	1,700	475,200	434	1,710	586,800	504	1,920	741,600	654	1,930	1,035,600	704	2,140	1,200,000	804	2,150	1,464,000
Total			62	8,080	64,950	200	8,280	316,560	310	8,280	450,960	364	9,085	615,960	414	9,095	695,880	467	9,290	826,200	543	9,725	1,012,980	701	9,890	1,399,680	753	10,155	1,586,520	855	10,370	1,866,600

DENSO INDUSTRY YANGON LIMITED

Annex J Production/service and Sales/income Schedule (Export Sales Only / No Local Sales)

Expressed in US$

Sr	Particular	A/U	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
	Sales Quantity												
1	IDT harness	Qty	190,080	871,200	1,135,200	1,320,000	1,452,000	1,716,000	2,244,000	2,772,000	3,036,000	3,300,000	18,036,480
2	Crimping harness	Qty	1,811,931	8,304,686	10,821,257	12,582,857	13,841,143	16,357,714	21,390,857	26,424,000	28,940,571	31,457,143	171,932,160
3	Soldering harness	Qty	3,456,000	15,840,000	20,640,000	24,000,000	26,400,000	31,200,000	40,800,000	50,400,000	55,200,000	60,000,000	327,936,000
4	Other harness	Qty	191,520	877,600	1,143,800	1,330,000	1,463,000	1,729,000	2,261,000	2,793,000	3,059,000	3,325,000	18,173,120
	Total		5,649,531	25,893,686	33,740,257	39,232,857	43,156,143	51,002,714	66,695,857	82,389,000	90,235,571	98,082,143	536,077,760

	Sales income (Expressed in USD)												
1	IDT harness	US$	28,512	130,680	170,280	198,000	217,800	257,400	336,600	415,800	455,400	495,000	2,705,472
2	Crimping harness	US$	634,176	2,906,640	3,787,440	4,404,000	4,844,400	5,725,200	7,486,800	9,248,400	10,129,200	11,010,000	60,176,256
3	Soldering harness	US$	86,400	396,000	516,000	600,000	660,000	780,000	1,020,000	1,260,000	1,380,000	1,500,000	8,198,400
4	Other harness	US$	114,912	526,680	686,280	798,000	877,800	1,037,400	1,356,600	1,675,800	1,835,400	1,995,000	10,903,872
	Total	US$	864,000	3,960,000	5,160,000	6,000,000	6,600,000	7,800,000	10,200,000	12,600,000	13,800,000	15,000,000	81,984,000

	System of Sale												
	1. Local 100 %	%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	2. Export 100 %	%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Average Unit Price

Sr	Type of Products	Local Sale						Export		
No.		Qty	ton/unit	Average Unit Price (USD)	Commercial Tax Rate	Commercial Tax Amount	Total	Qty		Average Unit Price (USD)
(a)	IDT (Insulator Displacing Termination)		Ton		5%	-	-	18,036,480		0.1
(b)	Crimping harness		Ton		5%	-	-	171,932,160		0.2
(c)	Soldering harness		Ton		5%	-	-	327,936,000		0.02
(d)	Ohters harness		Ton		5%	-	-	18,173,120		0.4

* IDT = Insulator Displacing Termination

Products

For Consumer Products Digital Still Cameras, Game Consoles, Camcorders, PCs

IDT (Insulator Displacing Termination)



Single-end termination



HDD power cable

Crimping



Both-end termination

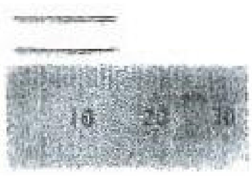


TV cable



Taping

Soldering



Both-end soldering



Both-end soldering



Taping

Others



Laptop PC power cable 1



Laptop PC power cable 2



Forming

Crimping



Telecom cable

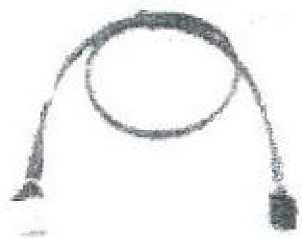


Signal cable

Crimping







Soldering



Dsub

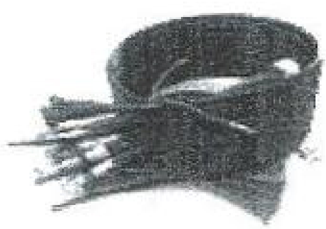


Camera cable 1



Camera cable 2

Others



Robot cable

DENSO INDUSTRY YANGON LIMITED

Annex K Depreciation and Amortization (New Machine)

Expressed in US$

Category	NO	Description	MODEL	Q'ty	Unit Price (US$)	Total Price (US$)	Starting Year of Depreciation	Useful Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Machine & Equipment	1	Fuel tank	1000L	1	2,000	2,000	Year 1	16	125	125	125	125	125	125	125	125	125	125
Machine & Equipment	2	Fuel tank	8000L	1	5,000	5,000	Year 1	16	313	313	313	313	313	313	313	313	313	313
Machine & Equipment	3	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 1	16	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Machine & Equipment	4	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 4	16	-	-	-	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Machine & Equipment	5	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 6	16	-	-	-	-	-	2,000	2,000	2,000	2,000	2,000
Machine & Equipment	6	Casting Machine	C370A (Accessories set)	2	16,000	32,000	Year 8	16	-	-	-	-	-	-	-	2,000	2,000	2,000
Machine & Equipment	7	Reel stand	HK-007	2	2,500	5,000	Year 1	16	313	313	313	313	313	313	313	313	313	313
Machine & Equipment	8	Reel stand	HK-007	2	2,500	5,000	Year 4	16	-	-	-	313	313	313	313	313	313	313
Machine & Equipment	9	Reel stand	HK-007	2	2,500	5,000	Year 6	16	-	-	-	-	-	313	313	313	313	313
Machine & Equipment	10	Reel stand	HK-007	2	2,500	5,000	Year 8	16	-	-	-	-	-	-	-	313	313	313
Machine & Equipment	11	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	4	2,000	8,000	Year 1	16	500	500	500	500	500	500	500	500	500	500
Machine & Equipment	12	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	4	2,000	8,000	Year 2	16	-	500	500	500	500	500	500	500	500	500
Machine & Equipment	13	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	2	2,000	4,000	Year 4	16	-	-	-	250	250	250	250	250	250	250
Machine & Equipment	14	Semi-automatic crimping machine	CM-2000QPE(Accessories set)	2	2,000	4,000	Year 6	16	-	-	-	-	-	250	250	250	250	250
Machine & Equipment	15	Applicator	Needs to be considered by the production Number	14	1,000	14,000	Year 1	16	875	875	875	875	875	875	875	875	875	875
Machine & Equipment	16	Applicator	Needs to be considered by the production	10	1,000	10,000	Year 2	16	-	625	625	625	625	625	625	625	625	625
Machine & Equipment	17	Applicator	Needs to be considered by the production Number	10	1,000	10,000	Year 3	16	-	-	625	625	625	625	625	625	625	625
Machine & Equipment	18	Applicator	Needs to be considered by the production	10	1,000	10,000	Year 4	16	-	-	-	625	625	625	625	625	625	625
Machine & Equipment	19	Applicator	Needs to be considered by the production	5	1,000	5,000	Year 5	16	-	-	-	-	313	313	313	313	313	313
Machine & Equipment	20	Applicator	Needs to be considered by the production	5	1,000	5,000	Year 6	16	-	-	-	-	-	313	313	313	313	313
Machine & Equipment	21	Applicator	Needs to be considered by the production	5	1,000	5,000	Year 7	16	-	-	-	-	-	-	313	313	313	313
Machine & Equipment	22	Applicator	Needs to be considered by the production	5	1,000	5,000	Year 8	16	-	-	-	-	-	-	-	313	313	313

Annex K Depreciation and Amortization (New Machine)

Expressed in US$

Category	NO	Description	MODEL	Q'ty	Unit Price (US$)	Total Price (US$)	Starting Year of Depreciation	Useful Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Machine & Equipment	23	Applicator	Needs to be considered by the production	5	1,000	5,000	Year 9	16	-	-	-	-	-	-	-	-	313	313
Machine & Equipment	24	Applicator	Needs to be considered by the production	5	1,000	5,000	Year 10	16	-	-	-	-	-	-	-	-	-	313
Machine & Equipment	25	Microscope	CJK-01	2	100	200	Year 1	16	13	13	13	13	13	13	13	13	13	13
Machine & Equipment	26	Microscope	Inspection camera	4	120	480	Year 1	16	30	30	30	30	30	30	30	30	30	30
Machine & Equipment	27	Microscope	Inspection camera	2	120	240	Year 2	16	-	15	15	15	15	15	15	15	15	15
Machine & Equipment	28	Microscope	Inspection camera	4	120	480	Year 3	16	-	-	30	30	30	30	30	30	30	30
Machine & Equipment	29	Microscope	Inspection camera	2	120	240	Year 4	16	-	-	-	15	15	15	15	15	15	15
Machine & Equipment	30	Microscope	Inspection camera	2	120	240	Year 5	16	-	-	-	-	15	15	15	15	15	15
Machine & Equipment	31	Checker	NACMAN NMC128	4	1,200	4,800	Year 1	16	300	300	300	300	300	300	300	300	300	300
Machine & Equipment	32	Checker	NACMAN NMG64	2	4,300	8,600	Year 1	16	538	538	538	538	538	538	538	538	538	538
Machine & Equipment	33	Checker	NACMAN NMG64	1	4,300	4,300	Year 2	16	-	269	269	269	269	269	269	269	269	269
Machine & Equipment	34	Checker	NACMAN NMG64	1	4,300	4,300	Year 3	16	-	-	269	269	269	269	269	269	269	269
Machine & Equipment	35	Storip Machine	COSMIC 927R	1	4,992	4,992	Year 1	16	312	312	312	312	312	312	312	312	312	312
Machine & Equipment	36	Storip Machine	ZKS-12	1	3,328	3,328	Year 1	16	208	208	208	208	208	208	208	208	208	208
Machine & Equipment	37	Storip Machine	ZKS-12	2	3,328	6,656	Year 2	16	-	416	416	416	416	416	416	416	416	416
Machine & Equipment	38	Air Compressor	22kw Capacity	2	50,000	100,000	Year 1	16	6,250	6,250	6,250	6,250	6,250	6,250	6,250	6,250	6,250	6,250
Machine & Equipment	39	Air tank	400L Capacity	1	2,667	2,667	Year 1	16	167	167	167	167	167	167	167	167	167	167
Machine & Equipment	40	UPS	SMU-HB152-R-200 200V1.5KVA	1	3,616	3,616	Year 1	16	226	226	226	226	226	226	226	226	226	226
Machine & Equipment	41	Checker	NACMAN NMC60	6	1,141	6,844	Year 1	16	428	428	428	428	428	428	428	428	428	428
Machine & Equipment	42	Checker	NACMAN NMC60	2	1,141	2,281	Year 2	16	-	143	143	143	143	143	143	143	143	143
Machine & Equipment	43	Checker	NACMAN NMC60	2	1,141	2,281	Year 3	16	-	-	143	143	143	143	143	143	143	143
Machine & Equipment	44	Checker	NACMAN NMC60	2	1,141	2,281	Year 4	16	-	-	-	143	143	143	143	143	143	143
Machine & Equipment	45	Checker	NACMAN NMC60	2	1,141	2,281	Year 5	16	-	-	-	-	143	143	143	143	143	143
Machine & Equipment	46	Checker	NACMAN NMC60	2	1,141	2,281	Year 6	16	-	-	-	-	-	143	143	143	143	143
Machine & Equipment	47	Digital cutter	ZKC-25	1	7,325	7,325	Year 1	16	458	458	458	458	458	458	458	458	458	458
Machine & Equipment	48	Wire twist machine	HK-029	4	1,543	6,173	Year 1	16	386	386	386	386	386	386	386	386	386	386
Machine & Equipment	49	Wire twist machine	HK-029	2	1,543	3,086	Year 2	16	-	193	193	193	193	193	193	193	193	193
Machine & Equipment	50	Wire twist machine	HK-029	2	1,543	3,086	Year 3	16	-	-	193	193	193	193	193	193	193	193
		Sub-total		161		435,060			13,439	15,599	16,858	20,204	20,674	23,691	24,004	26,629	26,941	27,254

DENSO INDUSTRY YANGON LIMITED

Annex K Depreciation and Amortization (Reconditioned Machine)

Expressed in US$

Category	NO	Description	MODEL	Q'ty	Unit Price (US$)	Total Price (US$)	Starting Year of Depreciation	Useful Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Machine & Equipment	1	Generator	600REOZM D600 24.5A50/60 ENGINE 5M ALTERNATOR	1	10,997	10,997	Year 1	16	687	687	687	687	687	687	687	687	687	687
Machine & Equipment	2	Fully automatic crimping machine	JN03S-A1-FX	3	38,275	114,825	Year 1	16	7,177	7,177	7,177	7,177	7,177	7,177	7,177	7,177	7,177	7,177
Machine & Equipment	3	Fully automatic crimping machine	JN01SS II	1	26,164	26,164	Year 1	16	1,635	1,635	1,635	1,635	1,635	1,635	1,635	1,635	1,635	1,635
Machine & Equipment	4	Fully automatic crimping machine	JN03S-A1-FX	1	11,632	11,632	Year 2	16	-	727	727	727	727	727	727	727	727	727
Machine & Equipment	5	Fully automatic crimping machine	JN03S-A1-FX	1	21,356	21,356	Year 2	16	-	1,335	1,335	1,335	1,335	1,335	1,335	1,335	1,335	1,335
Machine & Equipment	6	Fully automatic crimping machine	JN03S-A1-FX	1	39,806	39,806	Year 2	16	-	2,488	2,488	2,488	2,488	2,488	2,488	2,488	2,488	2,488
Machine & Equipment	7	Fully automatic crimping machine	TR201	1	28,000	28,000	Year 2	16	-	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750
Machine & Equipment	8	Fully automatic crimping machine	TR201	1	21,866	21,866	Year 3	16	-	-	1,367	1,367	1,367	1,367	1,367	1,367	1,367	1,367
Machine & Equipment	9	Fully automatic crimping machine	TR201	1	30,125	30,125	Year 3	16	-	-	1,883	1,883	1,883	1,883	1,883	1,883	1,883	1,883
Machine & Equipment	10	Fully automatic crimping machine	TR201	1	30,125	30,125	Year 4	16	-	-	-	1,883	1,883	1,883	1,883	1,883	1,883	1,883
Machine & Equipment	11	Fully automatic crimping machine	TR201	1	31,709	31,709	Year 4	16	-	-	-	1,982	1,982	1,982	1,982	1,982	1,982	1,982
Machine & Equipment	12	Fully automatic crimping machine	TR201	1	31,709	31,709	Year 5	16	-	-	-	-	1,982	1,982	1,982	1,982	1,982	1,982
Machine & Equipment	13	Fully automatic crimping machine	TR201	1	8,896	8,896	Year 5	16	-	-	-	-	556	556	556	556	556	556
Machine & Equipment	14	Fully automatic crimping machine	TR201	1	13,294	13,294	Year 5	16	-	-	-	-	831	831	831	831	831	831
Machine & Equipment	15	Fully automatic crimping machine	JN07SD	1	49,083	49,083	Year 6	16	-	-	-	-	-	3,068	3,068	3,068	3,068	3,068
Machine & Equipment	16	Fully automatic crimping machine	JN07SD	1	49,083	49,083	Year 6	16	-	-	-	-	-	3,068	3,068	3,068	3,068	3,068
Machine & Equipment	17	Fully automatic crimping machine	JN07SDW-H	1	86,782	86,782	Year 7	16	-	-	-	-	-	-	5,424	5,424	5,424	5,424
Machine & Equipment	18	Fully automatic crimping machine	JN07SDW-H	1	86,782	86,782	Year 7	16	-	-	-	-	-	-	5,424	5,424	5,424	5,424
Machine & Equipment	19	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	16	-	538	538	538	538	538	538	538	538	538
Machine & Equipment	20	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	16	-	538	538	538	538	538	538	538	538	538
Machine & Equipment	21	Fully automatic crimping machine	C370A (Accessories set)	1	8,609	8,609	Year 2	16	-	538	538	538	538	538	538	538	538	538
		Sub-total		23		718,061			9,499	17,413	20,662	24,527	27,896	34,031	44,879	44,879	44,879	44,879

Annex K Depreciation and Amortization

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Expressed in US$

Depreciation for the

Category	NO	Description	MODEL	Q'ty	Unit Price (US$)	Total Price (US$)	Starting Year of Depreciation	Useful Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Factory Accessary	1	Industrial dryer	HAKKO 881	3	1,400	4,200	Year 1	3	1,400	1,400	1,400			-	-	-	-	-
Factory Accessary	2	Industrial dryer	HAKKO 881	3	1,400	4,200	Year 2	3	-	1,400	1,400	1,400			-	-	-	-
Factory Accessary	3	Industrial dryer	HAKKO 881	2	1,400	2,800	Year 4	3	-	-	-	933	933	933			-	-
Factory Accessary	4	Solder bath	HAKKO 93	6	1,250	7,500	Year 1	3	2,500	2,500	2,500			-	-	-	-	-
Factory Accessary	5	Solder bath	HAKKO 93	10	1,250	12,500	Year 2	3	-	4,167	4,167	4,167			-	-	-	-
Factory Accessary	6	Solder bath	HAKKO 93	5	1,250	6,250	Year 3	3	-	-	2,083	2,083	2,083			-	-	-
Factory Accessary	7	Solder bath	HAKKO 93	5	1,250	6,250	Year 4	3	-	-	-	2,083	2,083	2,083			-	-
Factory Accessary	8	Tape cutter	SLD-M2000	4	230	920	Year 1	3	307	307	307			-	-	-	-	-
Factory Accessary	9	Tape cutter	SLD-M2000	10	230	2,300	Year 2	3	-	767	767	767			-	-	-	-
Factory Accessary	10	Tape cutter	SLD-M2000	5	230	1,150	Year 3	3	-	-	383	383	383			-	-	-
Factory Accessary	11	Tape cutter	SLD-M2000	5	230	1,150	Year 4	3	-	-	-	383	383	383			-	-
Factory Accessary	12	Soldering Iron	FX-888	2	210	420	Year 1	3	140	140	140			-	-	-	-	-
Factory Accessary	13	Soldering Iron	FX-888	2	210	420	Year 2	3	-	140	140	140			-	-	-	-
Factory Accessary	14	Tip thermometer	FG-100	1	266	266	Year 1	3	89	89	89			-	-	-	-	-
Factory Accessary	15	Solder thermometer	FG-101 A1310	1	1,223	1,223	Year 1	3	408	408	408			-	-	-	-	-
Factory Accessary	16	Solder thermometer	FG-101 A1310	1	1,223	1,223	Year 2	3	-	408	408	408			-	-	-	-
Factory Accessary	17	Loupe	Ten times	4	80	320	Year 1	3	107	107	107			-	-	-	-	-
Factory Accessary	18	Magnifying glass	Four times	4	110	440	Year 1	3	147	147	147			-	-	-	-	-
Factory Accessary	19	Magnifying glass	Four times	10	110	1,100	Year 2	3	-	367	367	367			-	-	-	-
Factory Accessary	20	Magnifying glass	Four times	5	110	550	Year 3	3	-	-	183	183	183			-	-	-
Factory Accessary	21	Magnifying glass	Four times	5	110	550	Year 4	3	-	-	-	183	183	183			-	-
Factory Accessary	22	Electronic scale	0.01g Unit (600g)	2	410	820	Year 1	3	273	273	273			-	-	-	-	-
Factory Accessary	23	Electronic scale	0.01g Unit (600g)	2	410	820	Year 2	3	-	273	273	273			-	-	-	-
Factory Accessary	24	Tester		1	55	55	Year 1	3	18	18	18			-	-	-	-	-
Factory Accessary	25	Micrometer	MITSUTOYO model	3	500	1,500	Year 1	3	500	500	500			-	-	-	-	-
Factory Accessary	26	Micrometer	MITSUTOYO model	3	500	1,500	Year 2	3	-	500	500	500			-	-	-	-
Factory Accessary	27	Micrometer	MITSUTOYO model	3	500	1,500	Year 3	3	-	-	500	500	500			-	-	-
Factory Accessary	28	Milling machine	Jig	1	1,109	1,109	Year 1	3	370	370	370			-	-	-	-	-
Factory Accessary	29	Grinder Thunder	Jig	1	388	388	Year 1	3	129	129	129			-	-	-	-	-
Factory Accessary	30	Vernier caliper	MITSUTOYO model	2	140	280	Year 1	3	93	93	93			-	-	-	-	-
Factory Accessary	31	Block Gauge	MITSUTOYO model (Calibration)	1	200	200	Year 1	3	67	67	67			-	-	-	-	-
Factory Accessary	32	General Tools set		2	300	600	Year 1	3	200	200	200			-	-	-	-	-
Factory Accessary	33	Dedicated Tools set	Plumbing,Electric screwdriver,Drill,etc	1	388	388	Year 1	3	129	129	129			-	-	-	-	-

Annex K Depreciation and Amortization

Expressed in US$

Category	NO	Description	MODEL	Q'ty	Unit Price (US$)	Total Price (US$)	Starting Year of Depreciation	Useful Year	Depreciation for the Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Factory Accessary	34	Allen wrench (mm)		3	60	180	Year 1	3	60	60	60			-	-	-	-	-
Factory Accessary	35	Allen wrench (mm)		2	60	120	Year 2	3	-	40	40	40			-	-	-	-
Factory Accessary	36	Allen wrench (mm)		2	60	120	Year 3	3	-	-	40	40	40			-	-	-
Factory Accessary	37	Allen wrench (inch full set)		2	120	240	Year 1	3	80	80	80			-	-	-	-	-
Factory Accessary	38	Allen wrench (inch full set)		1	120	120	Year 3	3	-	-	40	40	40			-	-	-
Factory Accessary	39	Bacuum Sealer	V-301W	1	1,886	1,886	Year 1	3	629	629	629			-	-	-	-	-
Factory Accessary	40	Bacuum Sealer	V-301W	1	1,886	1,886	Year 2	3	-	629	629	629			-	-	-	-
Factory Accessary	41	Slidax		1	453	453	Year 1	3	151	151	151			-	-	-	-	-
Factory Accessary	42	Transformer	200v→100v	2	45	90	Year 1	3	30	30	30			-	-	-	-	-
Factory Accessary	43	Transformer	200v→100v	5	45	225	Year 2	3	-	75	75	75			-	-	-	-
Factory Accessary	44	Stainless scale	150mm・500mm・1000mm etc	1	444	444	Year 1	3	148	148	148			-	-	-	-	-
Factory Accessary	45	Stainless scale	150mm・500mm・1000mm etc	1	444	444	Year 2	3	-	148	148	148			-	-	-	-
Factory Accessary	46	Packing machine	(band binding machine)	1	1,498	1,498	Year 1	3	499	499	499			-	-	-	-	-
Factory Accessary	47	Air coupler		1	666	666	Year 1	3	222	222	222			-	-	-	-	-
Factory Accessary	48	Air coupler		1	666	666	Year 2	3	-	222	222	222			-	-	-	-
Factory Accessary	49	Time recorder		2	439	878	Year 1	3	293	293	293			-	-	-	-	-
Factory Accessary	50	Time recorder		2	439	878	Year 3	3	-	-	293	293	293			-	-	-
Factory Accessary	51	Chime timer	TOA TT-104B	1	710	710	Year 1	3	237	237	237			-	-	-	-	-
Factory Accessary	52	LAN cable,Communication set		1	1,664	1,664	Year 1	3	555	555	555			-	-	-	-	-
Factory Accessary	53	Air gun		2	35	70	Year 1	3	23	23	23			-	-	-	-	-
Factory Accessary	54	Air gun	TRUSCO MAG22	2	115	230	Year 1	3	77	77	77			-	-	-	-	-
Factory Accessary	55	Grease gun		2	30	60	Year 1	3	20	20	20			-	-	-	-	-
Factory Accessary	56	Tensile tester	LH-500N	1	1,310	1,310	Year 1	3	437	437	437			-	-	-	-	-
Factory Accessary	57	Electric drill		1	70	70	Year 1	3	23	23	23			-	-	-	-	-
Factory Accessary	58	Drill set		2	65	130	Year 1	3	43	43	43			-	-	-	-	-
		Sub-total		156		79,930		3	10,403	19,537	23,080	16,240	7,108	3,583	-	-	-	-

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Annex K Depreciation and Amortization

Expressed in US$

Category	NO	Description	MODEL	Q'ty	Unit Price (US$)	Total Price (US$)	Starting Year of Depreciation	Useful Year	Depreciation for the Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
								3										
Office Accessary	1	Projector		1	533	533	Year 1	3	178	178	178			-	-	-	-	-
Office Accessary	2	Personal computer		8	600	4,800	Year 1	3	1,600	1,600	1,600			-	-	-	-	-
Office Accessary	3	Personal computer		2	600	1,200	Year 3	3	-	-	400	400	400			-	-	-
Office Accessary	4	Air conditioning	1.5 horsepower	3	1,150	3,450	Year 1	3	1,150	1,150	1,150			-	-	-	-	-
Office Accessary	5	Air conditioning	3 horsepower	13	1,600	20,800	Year 1	3	6,933	6,933	6,933			-	-	-	-	-
Office Accessary	6	Air conditioning	3 horsepower	6	1,600	9,600	Year 2	3	-	3,200	3,200	3,200			-	-	-	-
Office Accessary	7	Multifunction device		1	5,333	5,333	Year 1	3	1,778	1,778	1,778			-	-	-	-	-
Office Accessary	8	Color printer		2	160	320	Year 1	3	107	107	107			-	-	-	-	-
Office Accessary	9	Color printer		1	160	160	Year 2	3	-	53	53	53			-	-	-	-
Office Accessary	10	Laser printer	A3 corresponding	2	650	1,300	Year 1	3	433	433	433			-	-	-	-	-
Office Accessary	11	Laser printer	A3 corresponding	1	650	650	Year 2	3	-	217	217	217			-	-	-	-
Office Accessary	12	Office desks and chairs		8	200	1,600	Year 1	3	533	533	533			-	-	-	-	-
Office Accessary	13	GM desk and chair		1	320	320	Year 1	3	107	107	107			-	-	-	-	-
Office Accessary	14	Reception set		1	1,056	1,056	Year 1	3	352	352	352			-	-	-	-	-
Office Accessary	15	Meeting table set		1	371	371	Year 1	3	124	124	124			-	-	-	-	-
Office Accessary	16	Work desk		10	60	600	Year 1	3	200	200	200			-	-	-	-	-
Office Accessary	17	Work desk		10	60	600	Year 2	3	-	200	200	200			-	-	-	-
Office Accessary	18	Work chair		30	90	2,700	Year 1	3	900	900	900			-	-	-	-	-
Office Accessary	19	Work chair		10	90	900	Year 2	3	-	300	300	300			-	-	-	-
Office Accessary	20	Bench mat		1	800	800	Year 1	3	267	267	267			-	-	-	-	-
Office Accessary	21	Bookshelf		4	250	1,000	Year 1	3	333	333	333			-	-	-	-	-
Office Accessary	22	Chair		70	10	700	Year 1	3	233	233	233			-	-	-	-	-
Office Accessary	23	Chair		100	10	1,000	Year 2	3	-	333	333	333			-	-	-	-
Office Accessary	24	Chair		110	10	1,100	Year 3	3	-	-	367	367	367			-	-	-
Office Accessary	25	Chair		60	10	600	Year 4	3	-	-	-	200	200	200			-	-
Office Accessary	26	Chair		50	10	500	Year 5	3	-	-	-	-	167	167	167			-
Office Accessary	27	Chair		50	10	500	Year 6	3	-	-	-	-	-	167	167	167		
Office Accessary	28	Chair		70	10	700	Year 7	3	-	-	-	-	-	-	233	233	233	
Office Accessary	29	Chair		100	10	1,000	Year 8	3	-	-	-	-	-	-	-	333	333	333
Office Accessary	30	Chair		100	10	1,000	Year 9	3	-	-	-	-	-	-	-	-	333	333
Office Accessary	31	Chair		100	10	1,000	Year 10	3	-	-	-	-	-	-	-	-	-	333
Office Accessary	32	Locker(12persons)		7	100	700	Year 1	3	233	233	233			-	-	-	-	-
Office Accessary	33	Locker(12persons)		5	100	500	Year 2	3	-	167	167	167	167	167	-	-	-	-

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Annex K Depreciation and Amortization

Expressed in US$

Depreciation for the

Category	NO	Description	MODEL	Q'ty	Unit Price (US$)	Total Price (US$)	Starting Year of Depreciation	Useful Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Office Accessary	34	Locker(12persons)		5	100	500	Year 3	3	-	-	167	167	167	167	167	-	-	-
Office Accessary	35	Locker(12persons)		5	100	500	Year 4	3	-	-	-	167	167	167	167	167	-	-
Office Accessary	36	Locker(12persons)		7	100	700	Year 5	3	-	-	-	-	233	233	233	233	233.	-
Office Accessary	37	Locker(12persons)		5	100	500	Year 6	3	-	-	-	-	-	167	167	167	167	167
Office Accessary	38	Locker(12persons)		2	100	200	Year 7	3	-	-	-	-	-	-	67	67	67	67
Office Accessary	39	Locker(12persons)		2	100	200	Year 8	3	-	-	-	-	-	-	-	-	67	67
Office Accessary	40	Locker(12persons)		5	100	500	Year 10	3	-	-	-	-	-	-	-	-	-	167
Office Accessary	41	Tray		50	10	500	Year 1	3	167	167	167	167	167	-	-	-	-	-
Office Accessary	42	Work table(lines)		46	100	4,600	Year 1	3	1,533	1,533	1,533	1,533	1,533	-	-	-	-	-
Office Accessary	43	Work table(lines)		40	100	4,000	Year 2	3	-	1,333	1,333	1,333	1,333	1,333	-	-	-	-
Office Accessary	44	Work table(lines)		40	100	4,000	Year 3	3	-	-	1,333	1,333	1,333	1,333	1,333	-	-	-
Office Accessary	45	Warehouse shelf		11	250	2,750	Year 1	3	917	917	917	917	917	-	-	-	-	-
Office Accessary	46	Warehouse shelf		4	250	1,000	Year 2	3	-	333	333	333	333	333	-	-	-	-
Office Accessary	47	Warehouse shelf		6	250	1,500	Year 3	3	-	-	500	500	500	500	500	-	-	-
		Sub-total		1,166		88,844			14,395	18,065	18,465	4,070	400	-	-	-	-	-
Total						1,322,894			47,735	70,614	79,045	66,041	56,075	61,306	68,883	71,508	71,820	72,133

Annex L

Annex M-1 Calculation for Selling and Administrative Expenses

Expressed in US$

Particular	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Salary(administration)	36,450	107,760	134,160	220,560	220,680	239,400	271,380	364,080	386,520	402,600
Allowance(bonus)	970	3,300	4,520	5,460	5,480	7,300	8,630	10,880	10,920	13,600
Social insurance	1,091	3,222	4,018	6,617	6,620	7,182	8,141	10,922	11,596	12,078
Welfare	120	420	540	540	540	720	780	960	960	1,080
Rent(dormitory)	12,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
Rent(car)	6,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Communication	1,800	6,000	6,000	10,800	12,000	14,400	19,200	24,000	26,400	28,800
Travel expenses	1,800	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Stamps&postage	600	2,400	2,400	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Office supplies	600	2,400	2,400	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Consumable	1,800	6,000	6,000	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Newspaper etc	600	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Repair&maintenance	3,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Entertainment	1,800	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
Insurance expenses	6,000	12,000	12,000	10,800	12,000	14,400	19,200	24,000	26,400	28,800
Consultant fee	9,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
Audit fee	1,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Miscellaneous	3,000	12,000	12,000	10,800	12,000	14,400	19,200	24,000	26,400	28,800
Payment charges (License fee, bank chareges, taxes and duties etc.)	1,800	6,000	6,000	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Allowance(education)	3,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Total	92,431	240,302	268,838	365,977	372,120	405,402	463,731	585,642	620,796	652,158

DENSO INDUSTRY YANGON LIMITED

Annex M-2 Calculation for Non-Operating Expenses

Expressed in US$

Particular	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Bank interest income	0	0	0	0	0	0	0	0	0	0
Financial expenses	600	2,400	3,600	4,200	4,200	4,200	4,200	4,200	4,200	4,200
Bank charges	3,000	12,000	14,400	5,400	6,000	7,200	9,600	12,000	13,200	14,400
Other expenses	0	0	24,000	0	24,000	24,000	24,000	24,000	24,000	24,000
Foreign Exchange Loss	1,800	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
TOTAL	5,400	20,400	48,000	15,600	40,200	41,400	43,800	46,200	47,400	48,600

DENSO INDUSTRY YANGON LIMITED

Annex M-3 Calculation for Details of Other Expenses of Cost of Goods Sold

Expressed in US$

Particular	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Allowance(bonus)	3,250	18,800	29,300	38,600	45,250	55,200	70,100	96,200	111,750	133,750	602,200
Social insurance	2,570	20,658	32,462	58,903	67,900	76,878	89,599	115,258	123,944	141,822	729,993
Welfare	1,710	11,520	17,700	21,300	24,300	27,300	31,800	41,100	44,220	50,220	271,170
Communication expenses	1,200	3,600	3,600	5,400	6,000	7,200	9,600	12,000	13,200	14,400	76,200
Travel expenses	3,000	6,000	6,000	12,000	12,000	12,000	12,000	18,000	18,000	18,000	117,000
Entertainment expenses	1,800	3,600	3,600	6,000	6,000	7,200	8,400	9,600	10,800	12,000	69,000
Repair&maintenance	6,000	12,000	12,000	18,000	18,000	18,000	24,000	24,000	24,000	24,000	180,000
Office supplies	1,800	6,000	6,000	6,000	6,000	7,200	8,400	9,600	10,800	12,000	73,800
Consumable expenses	18,000	60,000	72,000	81,000	90,000	108,000	144,000	180,000	198,000	216,000	1,167,000
Miscellaneous	3,000	12,000	18,000	27,000	30,000	36,000	48,000	60,000	66,000	72,000	372,000
Transportation(Air&Ship)	34,560	100,800	136,800	162,000	180,000	216,000	288,000	360,000	396,000	432,000	2,306,160
Insurance expenses	4,320	16,800	22,800	27,000	30,000	36,000	48,000	60,000	66,000	72,000	382,920
Declaration fee/ Clearing Agent fees	4,320	16,800	22,800	27,000	30,000	36,000	48,000	60,000	66,000	72,000	382,920
Allowance(education)	3,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	57,000
TOTAL	88,530	294,578	389,062	496,203	551,450	648,978	835,899	1,051,758	1,154,714	1,276,192	6,787,363

DENSO INDUSTRY YANGON LIMITED

Annex N Profit & Loss Statement

Expressed in US$

Account	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Sales Income	**864,000**	**3,960,000**	**5,160,000**	**6,000,000**	**6,600,000**	**7,800,000**	**10,200,000**	**12,600,000**	**13,800,000**	**15,000,000**
Material Cost	*623,394*	*2,857,223*	*3,723,049*	*4,329,126*	*4,762,039*	*5,627,864*	*7,359,515*	*9,091,165*	*9,956,990*	*10,822,815*
Salary & Labor Cost	*28,500*	*208,800*	*316,800*	*395,400*	*475,200*	*586,800*	*741,600*	*1,035,600*	*1,200,000*	*1,464,000*
Depreciation	*47,735*	*70,614*	*79,045*	*65,041*	*56,075*	*61,306*	*68,883*	*71,508*	*71,820*	*72,133*
Factory rental fee(building and land)	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*	*48,000*
Utilities	*182,511*	*202,802*	*266,737*	*277,884*	*196,094*	*210,878*	*240,710*	*270,278*	*285,326*	*358,190*
Other Expense	*88,530*	*294,578*	*389,062*	*496,203*	*551,450*	*648,978*	*835,899*	*1,051,758*	*1,154,714*	*1,276,192*
Total Cost of goods sold	**1,018,670**	**3,682,017**	**4,822,694**	**5,611,655**	**6,088,858**	**7,183,825**	**9,294,605**	**11,568,308**	**12,716,850**	**14,041,330**
Gross Profit	**(154,670)**	**277,983**	**337,306**	**388,345**	**511,142**	**616,175**	**905,395**	**1,031,692**	**1,083,150**	**958,670**
Selling and Administrative Expenses	92,431	240,302	268,838	365,977	372,120	405,402	463,731	585,642	620,796	652,158
Commercial Tax Expenses	0	0	0	0	0	0	0	0	0	0
Operating Profit or Loss	**(247,100)**	**37,681**	**68,469**	**22,368**	**139,022**	**210,773**	**441,663**	**446,050**	**462,354**	**306,512**
Non-Operating Expenses	5,400	20,400	48,000	15,600	40,200	41,400	43,800	46,200	47,400	48,600
Expense on Corporate Social Responsibility	0	282	205	67	978	1,261	2,962	2,977	3,089	1,920
Earnings Before Income Tax	(252,500)	16,999	20,264	6,701	97,844	168,112	394,901	396,873	411,865	255,992
Income Tax (25%)	0	0	0	0	0	42,028	98,725	99,218	102,966	63,998
Net Income	**(252,500)**	**16,999**	**20,264**	**6,701**	**97,844**	**126,084**	**296,176**	**297,655**	**308,899**	**191,994**
CSR - 1% of Net Income		282	205	67	978	1,261	2,962	2,977	3,089	1,920

DENSO INDUSTRY YANGON LIMITED

Annex P Cash Flow Statement and Internal Rate of Return

Expressed in US$

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Cash Inflow										
Sales	864,000	3,960,000	5,160,000	6,000,000	6,600,000	7,800,000	10,200,000	12,600,000	13,800,000	15,000,000
Cash Outflow										
COGS (without depreciation)	970,934	3,611,403	4,743,648	5,546,614	6,032,782	7,122,520	9,225,723	11,496,800	12,645,030	13,969,197
Raw material	*623,394*	*2,857,223*	*3,723,049*	*4,329,126*	*4,762,039*	*5,627,864*	*7,359,515*	*9,091,165*	*9,956,990*	*10,822,815*
Labor Cost	*28,500*	*208,800*	*316,800*	*395,400*	*475,200*	*586,800*	*741,600*	*1,035,600*	*1,200,000*	*1,464,000*
Direct Overhead Expenses (Land and building rental+ Utilities + other expenses)	*319,040*	*545,380*	*703,800*	*822,087*	*795,543*	*907,856*	*1,124,608*	*1,370,035*	*1,488,040*	*1,682,382*
Expense (Selling & Administrative exp + non-operation Exp + CSR)	97,831	260,984	317,043	381,644	413,298	448,063	510,493	634,819	671,285	702,678
Income Tax	0	0	0	0	0	42,028	98,725	99,218	102,966	63,998
Total Cash Outflow	1,068,765	3,872,387	5,060,691	5,928,257	6,446,081	7,612,611	9,834,942	12,230,838	13,419,281	14,735,873
Cashflow from operations	-204,765	87,613	99,309	71,743	153,919	187,389	365,058	369,162	380,719	264,127
Capital investment and Disposal	-800,000									
Loan										
Net Cash Flow	-1,004,765	87,613	99,309	71,743	153,919	187,389	365,058	369,162	380,719	264,127
Accumulated Cash Flow	-1,004,765	-917,152	-817,842	-746,100	-592,180	-404,791	-39,733	329,429	710,148	974,275

IRR **12.17%**

Payback period **7 years 1 month 9 days**

LABOUR WELFARE LETTER **ANNEX Q**

To

Chairman

Myanmar Investment Commission

Nay Pyi Taw

Date : :

Subject: : Presenting the undertakings for the welfare of factory staff and for the workplace to become a pleasant place

Our company relating to above-mentioned case, Denso Industry Yangon Limited to be incorporated under the Foreign Investment Law, would like to present our performances concerning workers welfare and creating a pleasant workplace for the staff and workers, according to the hereunder sectors ,who are performing the duty for our company.

1. We have arranged to provide the factory workers with the free transportation with office buses.

2. If factory workers/ staff don't have any absent days, bonus for such regularity in attendance shall be arranged to grant.

3. In the case of working overtime at the factory, factory workers/ staff shall be provided with overtime fees according to section regarding overtime under Labor Law. In the case of working late according to the necessary condition, free meal/ snacks shall be provided.

4. Aid boxes/ first aid kit and rest rooms for sick workers shall be provided at the factory. In the case of having occupational injury, such worker shall be sent to Social Security Clinic and provided with medical care. Employees as well as employers are including their contributions in the Social Security Board.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

Annex R Overall projection statements of the proposed business

For the trading business in ASEAN countries, our main customer is in Thailand. In the view of developing large volume of new customers, we established factory in Myanmar to expand our export. For the mean time, Thailand, Vietnam, Malaysia, Hong Kong and Taiwan are our primary market, but in the long run, we plan to expand our market to Indonesia, Philippines and Myanmar.

Our target of average sales growth is about 20% as we increase our investment in equipment and machinery from cash generated by sales for the ten years and rate of operating profit is about 2%.

The 2% of operating profit target is an industry average in order to maintain a sustainable growth of the company and at the same time to save the financial resources to use for the timely expansion of business to create additional jobs, and to conduct the research for new technology. Since we plan to spend a large portion of income in employee educations and training, employee benefit, employee social insurance and employee incentives, rate of operating profit may little bit lower than other business entities.

We will do our best to produce the best quality of electric parts and to contribute to Myanmar economy.

The Profit and Loss Statement(Annex N) includes sales forecast and income from operations, and the Cash Flow Statement and Internal Rate of Return(Annex P) presents the cash inflows from operation for the 10 years with recoupment period.

DENSO INDUSTRY YANGON LIMITED

Annex S Annual Fuel, Electricity, Water requirements

Expressed in US$

	Particular	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Fuel	*Requirement (ℓ)*	150,000	150,000	195,000	195,000	112,500	112,500	112,500	112,500	112,500	112,500
Fuel	*Price per ℓ (USD)*	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
Fuel	Expense (USD)	160,576	160,576	208,748	208,748	120,432	120,432	120,432	120,432	120,432	120,432
Electricity	*Requirement (KW)*	213,840	403,920	501,600	600,000	602,800	726,000	899,631	1,127,077	1,154,057	1,674,514
Electricity	*Price per KWH (USD)*	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14
Electricity	Expense (USD)	21,384	40,392	55,176	66,000	72,336	87,120	116,952	146,520	161,568	234,432
Water	*Requirement (Ton)*	626	2,084	3,197	3,564	3,780	3,780	3,780	3,780	3,780	3,780
Water	*Price per Ton (USD)*	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Water	Expense (USD)	551	1,834	2,813	3,136	3,326	3,326	3,326	3,326	3,326	3,326
	Total Expense (USD)	182,511	202,802	266,737	277,884	196,094	210,878	240,710	270,278	285,326	358,190

Annex T

A 100% Foreign Company to be incorporated under the Foreign Investment Law

Undertaking to submit EIA Report and comply with Environmental Conservation Law and Rules

We, Denso Industry Yangon Limited, engaged Resource and Environment Myanmar Ltd. for Initial Environmental Examination and Environmental Management Plan of the proposed investment business to be checked in accordance with Environmental Conservation Law and Rules, Foreign Investment Rules and International Standards. The complete set of report will be received in May 2014. (Please see the attached letter issued by Resource and Environment Myanmar Ltd.)

We, Denso Industry Yangon Limited, do hereby undertake to submit EIA report to MIC as soon as we receive it and comply with Environmental Conservation Law and Rules set by Ministry of Environmental Conservation and Forestry.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

Annex U

A 100% Foreign Company to be incorporated under the Foreign Investment Law

Undertaking to comply with Relevant Law and Rules regarding Social Impact

We, Denso Industry Yangon Limited, do hereby undertake to comply with the relevant Laws, Rules and regulations set by the Ministry concerned.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

Chairman

Myanmar Investment Commission

The Republic of the Union of Myanmar

Subject: Application for tax exemptions, reliefs and privileges under the Myanmar Foreign Investment Law

Your Excellency:

As part of the application by our Company DENSO INDUSTRY YANGON LIMITED to invest in the Republic of the Union of Myanmar, we are applying for exemptions and reliefs specified in Sub-Sections (a) to (k) of Section 27 of the Foreign Investment Law as follows:

(a) income tax exemption for a period of five consecutive years including the year of commencement on commercial scale to any business for the production of goods or services, moreover, in case where it is beneficial to the Union, income tax exemption or relief for suitable period depending upon the success of the business in which investment is made;

(b) exemptions or reliefs from income tax on profits of the business if they are maintained for re-investment in a reserve fund and re-invested therein within 1 year after the reserve is made;

(c) right to deduct depreciation from the profit, after computing as the rate of deducting depreciation stipulated by the Union, in respect of machinery, equipment, building or other capital assets used in the business for the purpose of income tax assessment;

(d) if the goods produced by any manufacturing business are exported, relief from income tax up to 50 percent on the profits accrued from the said export;

(e) right to pay income tax on the income of foreigners at the rates applicable to the citizens residing within the Union;

(f) right to deduct expenses from the assessable income, such expenses incurred in respect of research and development relating to the business which are actually required and are carried out within the Union;

(g) right to carry forward and set-off the loss up to 3 consecutive years from the year the loss is actually sustained within 2 years following the enjoyment of exemption or relief from income tax as contained in sub-section (a), for each business;

(h) exemption or relief from custom duty or other internal taxes or both on machinery, equipment, instruments, machinery components, spare parts and materials used in the

business, which are imported as they are actually required for use during the period of construction of business;

(i) exemption or relief from customs duty or other internal taxes or both on raw materials imported for production for the first three-year after the completion of construction of business;

(j) if the volume of investment is increased with the approval of the Commission and the original investment business is expanded during the permitted period, exemption or relief from custom duty or other internal taxes or both on machinery, equipment, instruments, machinery components, spare parts and materials used in the business which are imported as they are actually required for use in the business expanded as such;

(k) exemption or relief from commercial tax on the goods produced for export;

We hope our application will be received favorably by the Commission.

Thank you for your kind assistance and co-operation.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

Form (10)

To,

Chairman
Myanmar Investment Commission
Republic of the Union of Myanmar

Ref No:
Date: 20, Month, Day

Subject: **Application of Exemption and Reliefs for Tax in accordance with the Foreign Investment Law.**

I do hereby, as an investor/promoter, apply the exemptions and reliefs of tax mentioned in section 27 (b) to (k) of the Chapter XII of the Foreign Investment Law according to the Rule 95:

1. Applicant
   (a) Name of Investor / Promoter — Mr. Takashi MISHIMA, Managing Director, Denso Industry Yangon Limited
   (b) Myanmar Investment Commission Permit No ______________________
2. Construction Period/Renovation Period as per original proposal ______ 2 year ______
3. Commencement date for commercial operation ______________________
4. Applied for the following exemptions and reliefs as per Chapter XII, section 27 (b) to (k) of the Foreign Investment Law: -

   (a) Exemption/Relief as per section 27 (b) of Chapter XII of the Foreign Investment Law

   exemptions or reliefs from income tax on profits of the business if they are maintained for reinvestment in a reserve fund and re-invested therein within 1year after the reserve is made;

   (b) Exemption/Relief as per section 27 (c) of Chapter XII of the Foreign Investment Law

   right to deduct depreciation from the profit, after computing as the rate of deducting depreciation stipulated by the Union, in respect of machinery , equipment, building or other capital assets used in the business for the purpose of income tax assessment;

   (c) Exemption/Relief as per section 27 (d) of Chapter XII of the Foreign Investment Law

   if the goods produced by any manufacturing business are exported, relief from income tax up to 50 percent on the profits accrued from the said export;

   (d) Exemption/Relief as per section 27 (e) of Chapter XII of the Foreign Investment Law

   right to pay income tax on the income of foreigners at the rates applicable to the citizens residing within the Union;

(e) Exemption/Relief as per section 27 (f) of Chapter XII of the Foreign Investment Law

right to deduct expenses from the assessable income, such expenses incurred in respect of research and development relating to the business which are actually required and are carried out within the Union;

(f) Exemption/Relief as per section 27 (g) of Chapter XII of the Foreign Investment Law

right to carry forward and set-off the loss up to 3 consecutive years from the year the loss is actually sustained within 2 years following the enjoyment of exemption or relief from income tax as contained ir sub-section (a), for each Business;

(g) Exemption/Relief as per section 27 (h) of Chapter XII of the Foreign Investment Law

exemption or relief from custom duty or other internal taxes or both on machinery, equipment, instrume machinery components, spare parts and materials used in the business, which are imported as they are actually required for use during the period of construction of business;

(h) Exemption/Relief as per section 27 (i) of Chapter XII of the Foreign Investment Law

exemption or relief from customs duty or other internal taxes or both on raw materials imported for production for the first three-year after the completion of construction of business;

(i) Exemption/Relief as per section 27 (j) of Chapter XII of the Foreign Investment Law

if the volume of investment is increased with the approval of the Commission and the original investme business is expanded during the permitted period, exemption or relief from custom duty or other internal taxes or both on machinery, equipment, instruments, machinery components, spare parts and materials u in the business which are imported as they are actually required for use in the business expanded as such

(j) Exemption/Relief as per section 27 (k) of Chapter XII of the Foreign Investment Law

exemption or relief from commercial tax on the goods produced for export;

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

ပုံစံ(၁၀)

ဥက္ကဋ္ဌ
မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်
ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်

စာအမှတ်၊
ရက်စွဲ၊ ၂၀ ခုနှစ်၊ လ ရက်

အကြောင်းအရာ။ ။နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဥပဒေအရ အခွန်အကောက် ကင်းလွတ်ခွင့်နှင့် သက်သာခွင့်များ လျှောက်ထားခြင်း

ကျွန်တော် /ကျွန်မသည် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုနည်းဥပဒေ အပိုဒ် ၉၅အရ ရင်းနှီးမြှုပ်နှံသူ သို့မဟုတ် ကမကထပြုသူအနေဖြင့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှုဥပဒေ အခန်း ၁၂၊ ပုဒ်မ ၂၇(ခ) မှ (ဋ) ပါ ကင်းလွတ်ခွင့်နှင့် သက်သာခွင့်များ ခံစားခွင့်ရရှိရေးအတွက် လျှောက်ထားအပ်ပါသည်။

လျှောက်ထားသူ

(က) ရင်းနှီးမြှုပ်နှံသူ /ကမကထပြုသူအမည် **Mr. Takashi MISHIMA (မန်နေဂျင်းဒါရိုက်တာ)**
ဒန်ဆိုအင်ဒတ်စတြီရန်ကုန်လီမိတက်

(ခ) မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်ခွင့်ပြုမိန့်အမှတ် ....

မူလအဆိုပြုချက်ပါ တည်ဆောက်ရေးကာလ/ပြုပြင်မွမ်းမံသည့်ကာလ ....၂ နှစ်.........................

စီးပွားဖြစ်စတင်ဆောင်ရွက်သည့်နေ့ ....

နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေ အခန်း၁၂၊ ပုဒ်မ ၂၇(ခ) မှ (ဋ) ပါ ကင်းလွတ်ခွင့်နှင့် သက်သာခွင့်များကို အောက်ပါအတိုင်းလျှောက်ထားအပ်ပါသည်။

(က) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (ခ)ပါ ကင်းလွတ်ခွင့် / သက်သာခွင့်
လုပ်ငန်းမှရရှိသည့်အမြတ်ငွေကို ပြန်လည်ရင်းနှီးမြှုပ်နှံရန်အတွက် သီးသန့်ရန်ပုံငွေ ထား၍ တစ်နှစ်အတွင်း ယင်းလုပ်ငန်း၌ ပြန်လည် ရင်းနှီးမြှုပ်နှံလျှင် ထိုအမြတ်ငွေ အပေါ် တွင် ဝင်ငွေခွန်ကင်းလွတ်ခွင့် သို့မဟုတ် သက်သာခွင့်။

(ခ) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (ဂ)ပါ ကင်းလွတ်ခွင့် / သက်သာခွင့်
ဝင်ငွေခွန်စည်းကြပ်ရန်ကိစ္စအလို့ငှာ စက်ပစ္စည်း၊ စက်ကိရိယာ၊ အဆောက်အအုံ သို့မဟုတ်လုပ်ငန်းသုံး အခြားမတည်ပစ္စည်းများအပေါ်တွင် နိုင်ငံတော်ကသတ်မှတ်ထားသည့် ပစ္စည်းတန်ဖိုး လျော့တွက်နှုန်းများအတိုင်း တွက်ချက်ပြီး ပစ္စည်းတန်ဖိုး လျော့တွက်ငွေ ကို အမြတ်ငွေထဲမှ နုတ်ပယ်ခွင့်။

(ဂ) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (ဃ)ပါ ကင်းလွတ်ခွင့် /သက်သာခွင့် ကုန်ထုတ်လုပ်ငန်းတစ်ခုခုက ထုတ်လုပ်သည့်ပစ္စည်းကို ပြည်ပသို့ တင်ပို့ရောင်းချလျှင် ထိုသို့တင်ပို့ရောင်းချ၍ ရရှိသောအမြတ်ငွေအပေါ်တွင် ၅၀ရာခိုင်နှုန်းအထိ ဝင်ငွေခွန် သက်သာခွင့်။

(ဃ) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (င)ပါ ကင်းလွတ်ခွင့် /သက်သာခွင့် နိုင်ငံခြားသားများ၏ ဝင်ငွေအပေါ်တွင် ပြည်တွင်းနေနိုင်ငံသားများ ပေးဆောင်သည့် ဝင်ငွေခွန်နှုန်းထားများအတိုင်း ဝင်ငွေခွန်ပေးဆောင်ခွင့်။

(င) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (စ)ပါ ကင်းလွတ်ခွင့် /သက်သာခွင့် နိုင်ငံတော်အတွင်း အမှန်တကယ် လိုအပ်၍ဆောင်ရွက်သည့် လုပ်ငန်းဆိုင်ရာ သုတေသနနှင့် ဖွံ့ဖြိုးရေးလုပ်ငန်းများအတွက် ကုန်ကျစရိတ်ကို အခွန်စည်းကြပ်ထိုက်သောဝင်ငွေမှ နုတ်ပယ်ခွင့်။

(စ) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (ဆ)ပါ ကင်းလွတ်ခွင့် /သက်သာခွင့် လုပ်ငန်းတစ်ခုချင်းအလိုက် ပုဒ်မခွဲ(က)ပါ ဝင်ငွေခွန်ကင်းလွတ်ခွင့် သို့မဟုတ် သက်သာခွင့် ခံစားပြီး တစ်ဆက်တည်းနှစ်နှစ်အတွင်း အမှန်တကယ်ပေါ်ပေါက်သည့် အရှုံးငွေကို ယင်းသို့ အရှုံးပေါ်ပေါက်သည့် နှစ်မှစ၍ တစ်ဆက်တည်း သုံးနှစ်ကာလ အထိ သယ်ယူခုနှိမ်ခွင့်။

(ဆ) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (ဇ)ပါ ကင်းလွတ်ခွင့် /သက်သာခွင့် လုပ်ငန်းတည်ဆောက်မှုကာလအတွင်း အမှန်တကယ်လိုအပ်၍ တင်သွင်းသော စက်ပစ္စည်းများ၊ အသုံးအဆောင်တန်ဆာပလာများ၊ စက်ကိရိယာအစိတ်အပိုင်းများ၊ စက်အရန်ပစ္စည်းများ၊ လုပ်ငန်းသုံးပစ္စည်းများအပေါ်တွင် အကောက်ခွန်ဖြစ်စေ၊ အခြားပြည်တွင်း အခွန်အကောက်များ ဖြစ်စေ၊ နှစ်မျိုးလုံးကိုဖြစ်စေ ကင်းလွတ်ခွင့် သို့မဟုတ် သက်သာခွင့်။

(ဇ) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (ဈ)ပါ ကင်းလွတ်ခွင့် /သက်သာခွင့် လုပ်ငန်းတည်ဆောက်မှုပြီးစီး၍ ပထမသုံးနှစ်အတွက် ကုန်ထုတ်လုပ်ရန်တင်သွင်းသည့်ကုန်ကြမ်းများအပေါ်တွင် အကောက်ခွန်ဖြစ်စေ၊ အခြားပြည်တွင်းအခွန်အကောက်များဖြစ်စေ၊နှစ်မျိုးလုံးကိုဖြစ်စေ၊ ကင်းလွတ်ခွင့် သို့မဟုတ် သက်သာခွင့်။

(ဈ) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (ည)ပါ ကင်းလွတ်ခွင့် /သက်သာခွင့် ကော်မရှင်၏ခွင့်ပြုချက်ဖြင့် ရင်းနှီးမြှုပ်နှံမှုပမာဏတိုးမြှင့်ပြီး မူလရင်းနှီးမြှုပ်နှံသည့် လုပ်ငန်းအား ခွင့်ပြုထားသည့် သက်တမ်းကာလအတွင်း တိုးချဲ့လုပ်ကိုင်ပါ

ပုံစံ(၁၀)

က ယင်းသို့ တိုးချဲ့သည့် လုပ်ငန်းအတွက် အမှန်တကယ်အသုံးပြုရန်လိုအပ်၍ တင်သွင်းသော စက်ပစ္စည်းများ စက်ကိရိယာများ၊ အသုံးအဆောင်တန်ဆာပလာများ၊ စက်ကိရိယာ အစိတ်အပိုင်းများ၊ စက်အရန်ပစ္စည်းများ၊ လုပ်ငန်းသုံးပစ္စည်းများအပေါ်တွင် အကောက်ခွန်ဖြစ်စေ၊ အခြားပြည်တွင်းအခွန် အကောက်များဖြစ်စေ၊ နှစ်မျိုးလုံးကိုဖြစ်စေ ကင်း လွတ်ခွင့် သို့မဟုတ် သက်သာခွင့်။

(ည) နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေအခန်း၁၂၊ ပုဒ်မ ၂၇ (ဌ)ပါ ကင်းလွတ်ခွင့် / သက်သာခွင့် ပြည်ပသို့တင်ပို့ရန် ထုတ်လုပ်သည့် ပစ္စည်းများအပေါ် ကုန်သွယ်လုပ်ငန်းခွန် ကင်းလွတ်ခွင့် သို့မဟုတ် သက်သာခွင့်။

လျှောက်ထားသူ

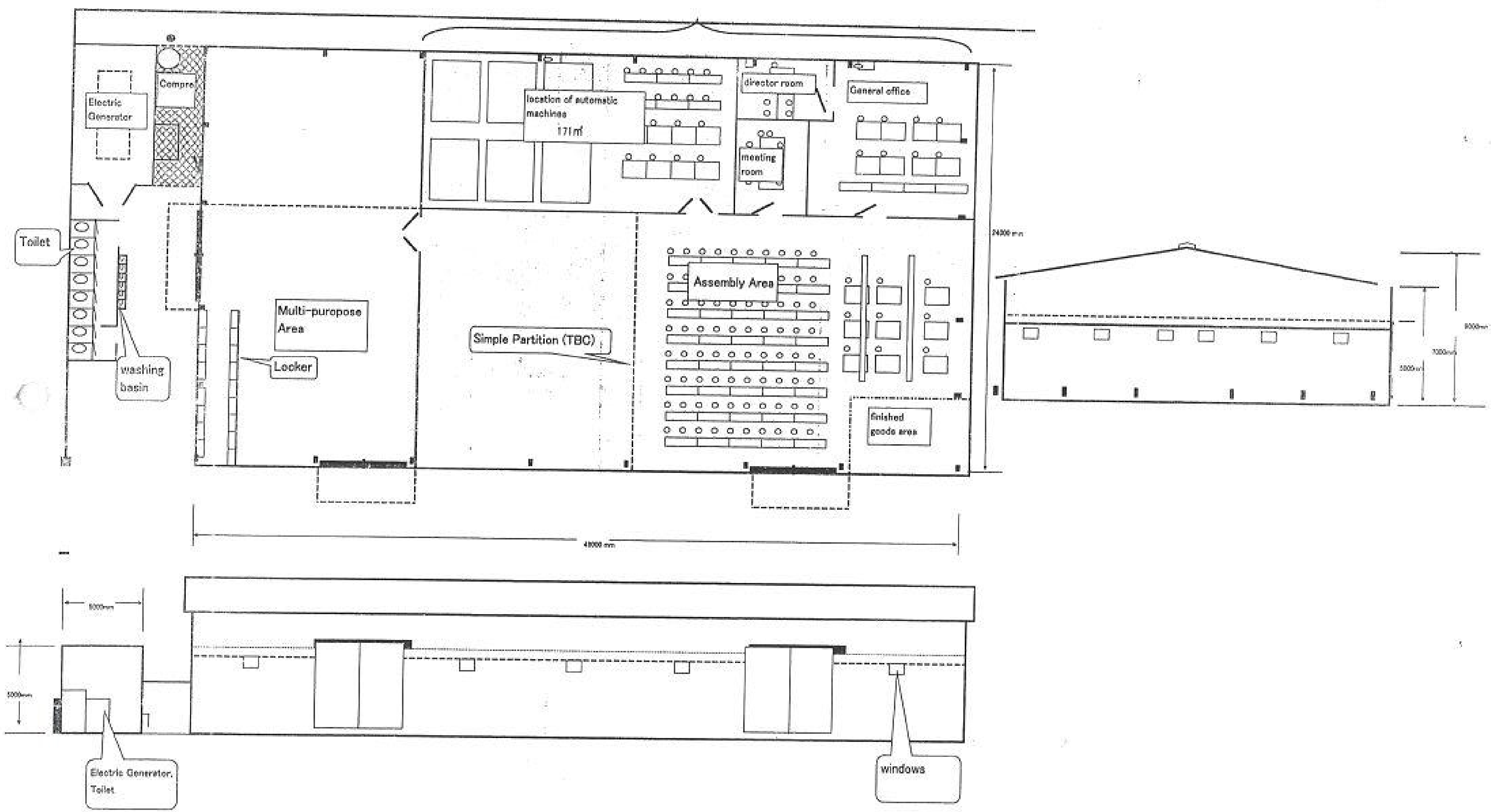
ရင်းနှီးမြှုပ်နှံသူ /ကမကထပြုသူ

Mr. Takashi MISHIMA

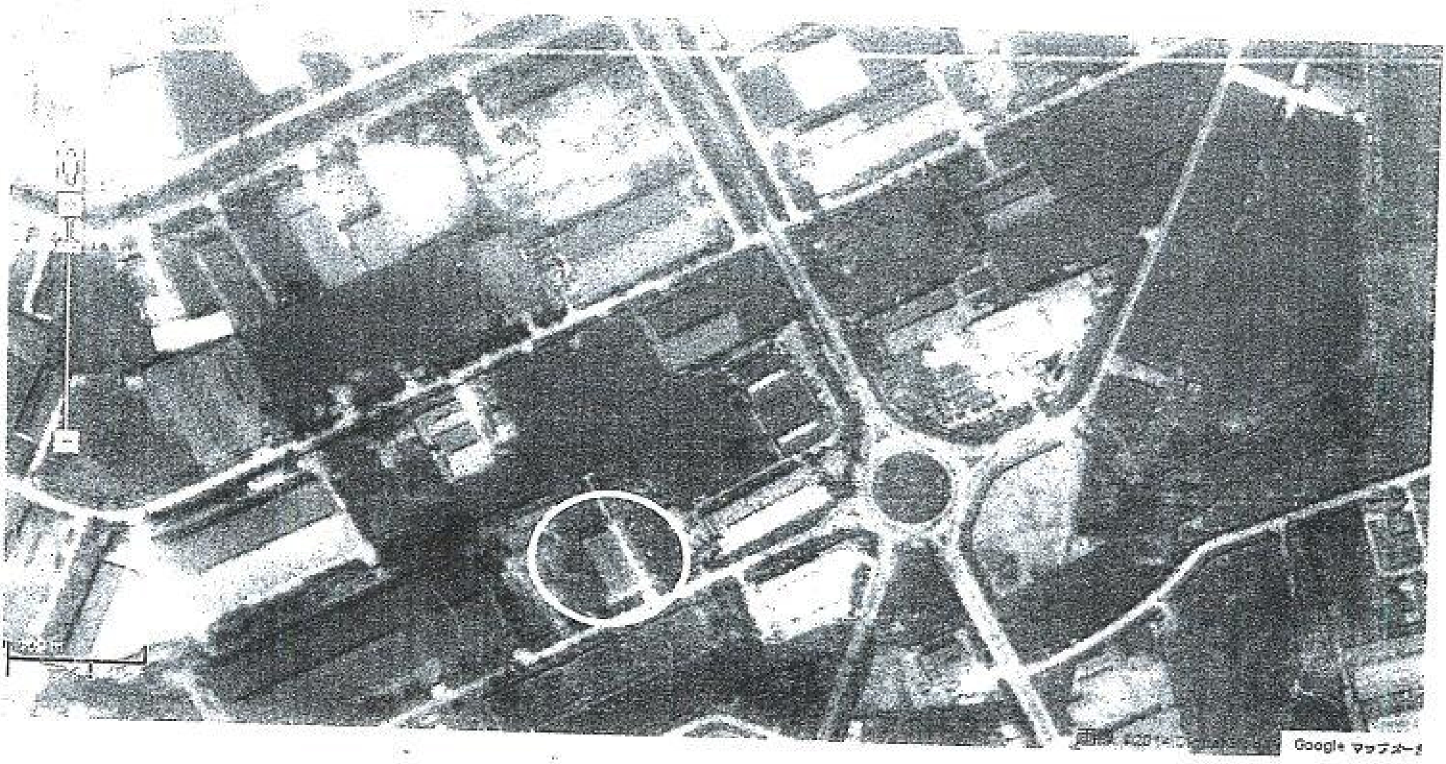
မန်နေဂျင်းဒါရိုက်တာ

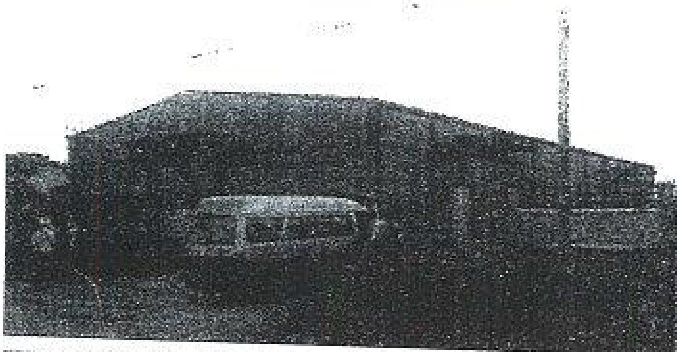
ဒန်ဆိုအင်ဒတ်စတြီရန်ကုန်လီမိတက်

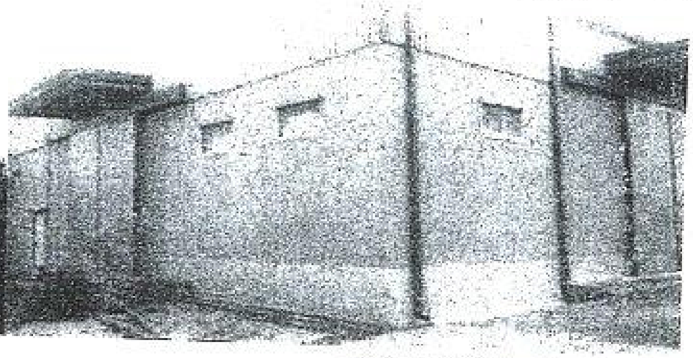
Location Map of Manufacturing Business

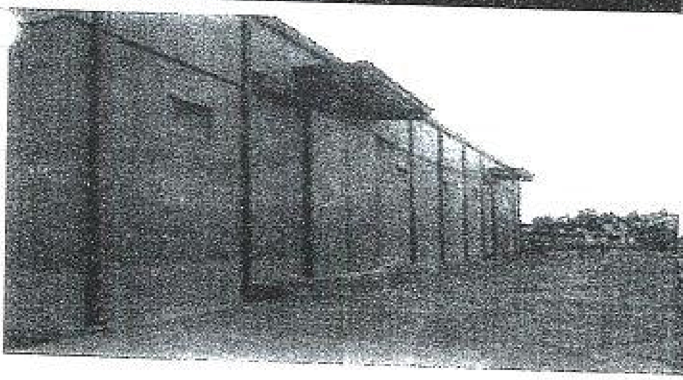


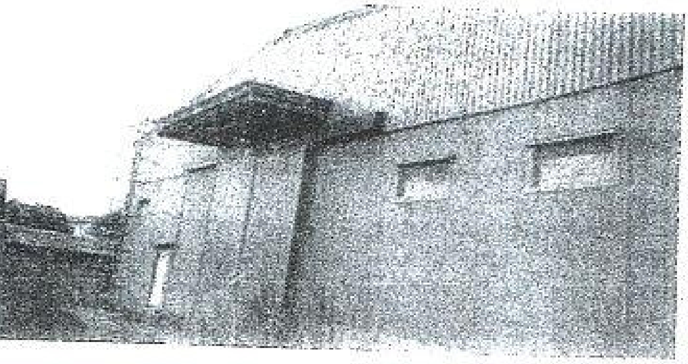
Electric Generator
Compre
location of automatic machines
171㎡
director room
General office
meeting room
Toilet
washing basin
Locker
Multi-puropose Area
Simple Partition (TBC)
Assembly Area
finished goods area
Electric Generator, Toilet
windows

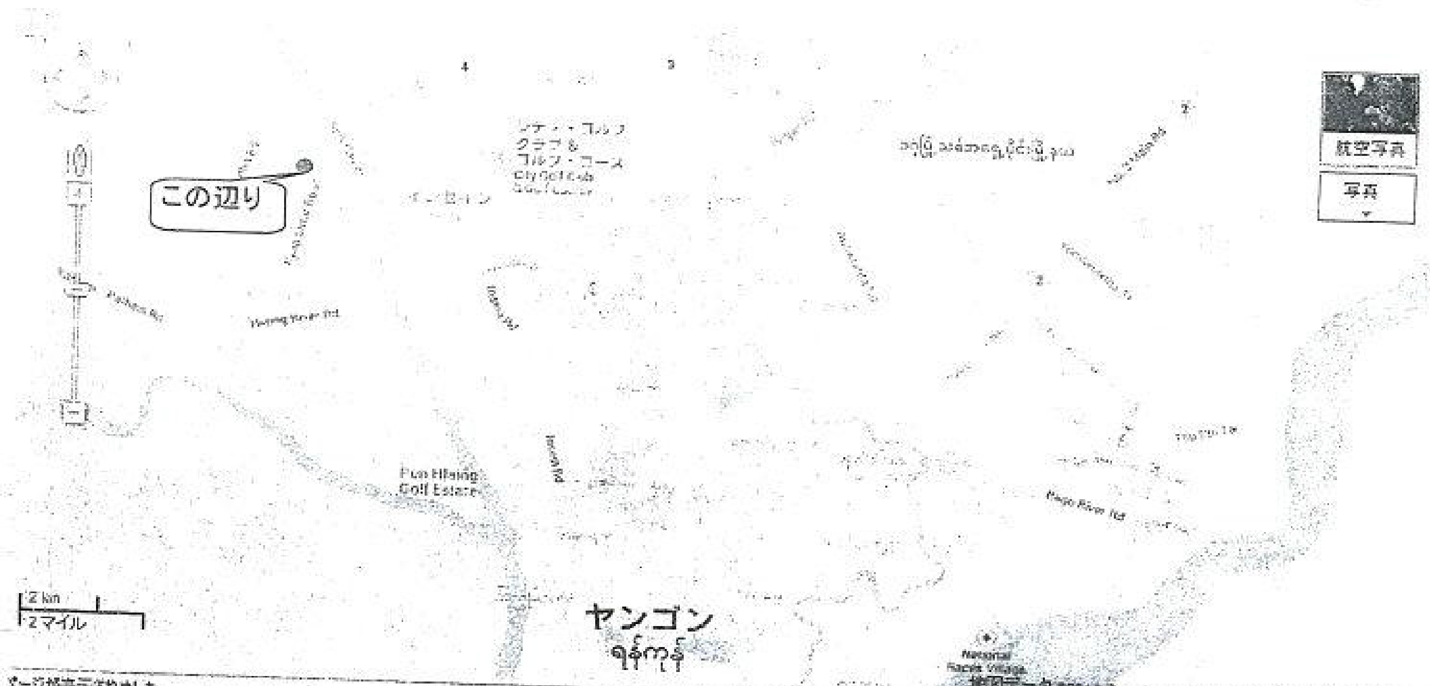

Google



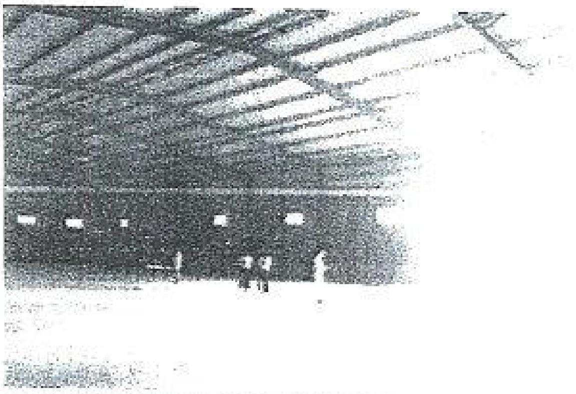


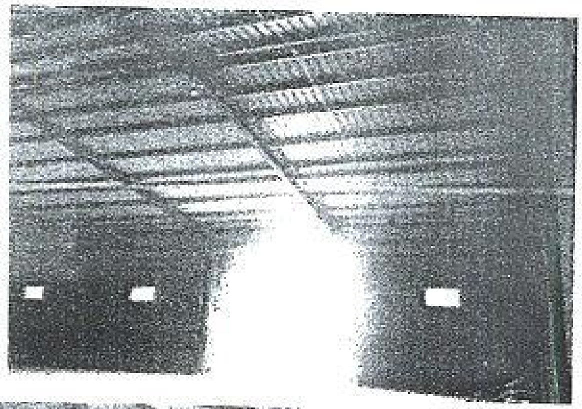


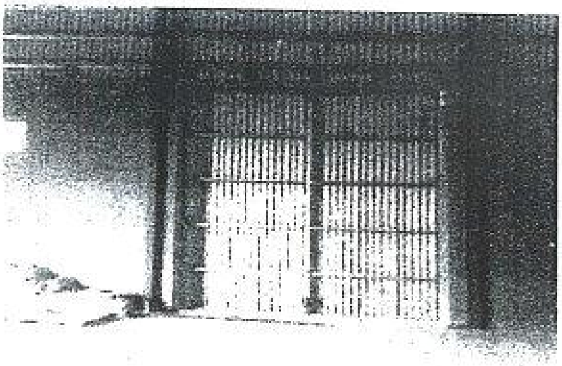


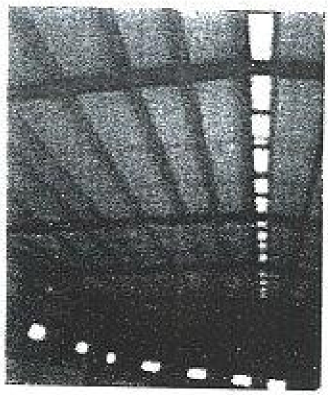

この辺り
クラブ &
City Golf Club
航空写真
写真
Pun Hlaing
Golf Estate
2 km
2 マイル
ヤンゴン
ရန်ကုန်
National
Races Village


ージが表示されました
地図データ ©2014 Google
インターネット
100%
500 m
1000 フィー
Google マップメー









Grant of Industrial Land

နိုင်ငံသား စိစစ်ရေး ကတ်ပြား



မြေငှားစာချုပ်

မူရင်း

၂၀၁၁ ခုနှစ်၊ (မြေငှား) အမှုတွဲ အမှတ် လ၁၁၁၁(စက်မှုဇုန်) ဆိုင်ရာစာချုပ်ဖြစ်သည်။
ရွှေလင်ပန်း / ၂၀၇ / ၂၀၁၁

ပြည်ထောင်စုမြန်မာနိုင်ငံတော်အစိုးရ၊ ဆောက်လုပ်ရေးဝန်ကြီးဌာန၊ မြို့ရွာနှင့် အိုးအိမ်ဖွံ့ဖြိုးရေးဦးစီးဌာန (နောင်တွင် "အငှားချထားသူ" ဟုရည်ညွှန်းသည်။ "အငှားချထားသူ" ဆိုသည့်စကားရပ်တွင် မြို့ရွာနှင့်အိုးအိမ်ဖွံ့ဖြိုးရေးဦးစီးဌာနနှင့် အဆိုပါဌာနကို ဆက်ခံသူများ၊ အဆိုပါဌာနက လွှဲအပ်သူများလည်း ပါဝင်သည်။)

နှင့် ရွှေကျင် မြို့နယ်၊ ဦး သက္ကတွမ်မဂျွန် ၏၊ သား/သမီး ဖြစ်သော ဦး/ဒေါ် ကျင်သိန်း အမျိုးသားမှတ်ပုံတင်အမှတ် ၁၂/တမန(နိုင်)၀၇၄၃၄၆ (နောက်တွင် "အငှား စာချုပ်ရသူ" ဟု ရည်ညွှန်းသည်။) တို့၊ ၁၃ ၇၃ ခုနှစ်၊ ဝါခေါင် လဆန်း/လပြည့်ကျော် ၈ ရက်နေ့၊ ခရစ် ၂၀၁၁ ခုနှစ်၊ (ဩဂုတ် လ ၂၂ ရက်) တွင် အောက်ပါအတိုင်း မြေငှားစာချုပ်-ချုပ်ဆိုကြသည်။

စက်မှုလက်မှုလုပ်ငန်း

အငှား စာချုပ်သူက-နောက်တွင် သတ်မှတ်ထားသည့် မြေငှားခကို ပေးဆောင်ရန် သဘောတူသောကြောင့် လည်းကောင်း၊ နောက်တွင်ပါရှိသော ပဋိညာဉ်ခံချက်များကို ပြုသောကြောင့်လည်းကောင်း၊ အောက်ပါဇယား၌ ဖော်ပြထားသော မြေကွက် အားလုံးကိုထိုမြေကွက်နှင့် သက်ဆိုင်သော ပိုင်ဆိုင်ခွင့်များ၊ ဝင်-ထွက် သွားလာနိုင်ခွင့် စသော သက်သာခွင့်များနှင့် အခြား အခွင့်အရေးများနှင့်တကွအငှားချထားသူက အငှားစာချုပ်ရသူအား၊ ဤစာချုပ်ဖြင့် အငှားချထားသည်။ အဆိုပါမြေကွက်အတွင်း မြေပေါ်မြေအောက်ရှိ သတ္တုတွင်းများ၊ ဓာတ်သတ္တုပစ္စည်းများ၊ မြေမြှုပ်ဘဏ္ဍာများ၊ ကျောက်မီးသွေး၊ ရေနံနှင့် ကွာရီ (Quarries) စသည်တို့သည်ဤစာချုပ်ဖြင့် အငှားချထားခြင်း၌ မပါဝင်ချေ။ ထိုသို့ရှာဖွေတူးဖော်ရယူ၊ သယ်ဆောင်ရာ၌ အဆိုပါမြေကွက်၏ မျက်နှာပြင်ကိုနှောက်ယှက်ပျက်စီးစေခဲ့လျှင်၊ အငှားစာချုပ်ရသူအားသင့်တော်သော လျော်ကြေးကို အငှားချထားသူက ပေးရမည်။ ထိုလျော်ကြေးနှင့် စပ်လျဉ်း၍ အငြင်းဖြစ်ပွားခဲ့သော် လျော်ကြေးကို တည်ဆဲမြေသိမ်း အက်ဥပဒေ၏ သို့ တည်းမဟုတ် စည်းမျဉ်းဥပဒေများ၏ ပြဋ္ဌာန်းချက်နှင့်အညီပြည်ထောင်စုမြန်မာနိုင်ငံတော်အစိုးရ ဆောက်လုပ်ရေးဝန်ကြီးဌာန မြို့ရွာနှင့် အိုးအိမ်ဖွံ့ဖြိုးရေးဦးစီးဌာန၏ ညွှန်ကြားရေးမှူးချုပ်က ဆုံးဖြတ်ရမည်။

ညွှန်ကြားချက်အမှတ် ၁/၉၇ ကို
လိုက်နာရမည်။

ထိုကြောင့် ဤစာချုပ်-ချုပ်ဆိုသည့် ၂၂.၈.၂၀၁၁ နေ့မှစ၍ နှစ်ပေါင်း ခြောက်ဆယ်ကာလ အပိုင်းအခြား အတွက် လက်ရှိထားနိုင်ရန် အငှားစာချုပ်ရသူအား အဆိုပါမြေကွက်ကို အငှားချထားသည်။

နှစ်ပေါင်း ခြောက်ဆယ် မြေငှားစာချုပ် ကာလအပိုင်းအခြားတွင် ၂၀၂၆ ခုနှစ် ဩဂုတ် လ ၂၀ ရက်နေ့၌၊ ကုန်ဆုံးသည့် ပထမ တစ်ဆယ့်ငါးနှစ်အတွင်းတွင် ကျပ် ၁၇၅၆ ပြား - (ကျပ်တစ်ထောင့်ခုနစ်ရာငါးဆယ့်ခြောက်) တိတိကို ဇန်နဝါရီလ ၁-ရက်နေ့မှ စသည့် သုံးလပတ်အတွက် ဇန်နဝါရီလ ၁-ရက်နေ့တွင် လည်းကောင်း၊ ဧပြီလ ၁-ရက်နေ့မှ စသည့် သုံးလပတ် အတွက် ဧပြီ ၁-ရက်နေ့တွင် လည်းကောင်း၊ ဇူလိုင်လ ၁-ရက်နေ့မှ စသည့် သုံးလပတ်အတွက် ဇူလိုင်လ ၁-ရက်နေ့တွင် လည်းကောင်း၊ အောက်တိုဘာလ ၁-ရက်နေ့မှစသည့် သုံးလပတ်အတွက် အောက်တိုဘာလ ၁-ရက်နေ့တွင်လည်းကောင်း ကြိုတင် ပေးဆောင်ရမည်၊ အဆိုပါနှစ်ခြောက်ဆယ်ကာလ အပိုင်းအခြား၏ ဒုတိယတစ်ဆယ့်ငါးနှစ်နှင့်တတိယတစ်ဆယ့်ငါးနှစ်၊ စတုတ္ထတစ်ဆယ့် ငါးနှစ်အတွက်အပိုဒ်၃-တွင် ပြဋ္ဌာန်းထားသည့်နည်းလမ်းအတိုင်း အငှားချထားသူအားသတ်မှတ်သည့် မြေငှားခများကို အငှားစာချုပ်ရသူက ပေးဆောင်ရမည်၊

၁။ အငှားစာချုပ်ရသူသည် အငှားချထားသူအား အောက်ပါအတိုင်း ပဋိညာဉ်ခံချက် ပြုလုပ်သည်

(က) အထက်၌ မြေငှားခကိုပေးဆောင်ရန် သတ်မှတ်ထားသည့် နေ့ရက်များတွင် သတ်မှတ်ထားသည့် နည်းလမ်းအတိုင်း အဆိုပါမြေငှားခနှင့် အဆိုပါမြေကွက်ပေါ်၌လည်းကောင်း၊ ထိုမြေကွက်ပေါ်တွင် ဆောက်လုပ်ထားသော **စက်မှုလက်မှုလုပ်ငန်း** သော်လည်းကောင်း၊ အငှားစာချုပ်ရသူအပေါ်၌လည်းကောင်း အဆိုပါ နှစ်ခြောက်ဆယ့် ကာလအပိုင်းအခြားအတွင်း စည်းကြပ်ဆဲ စည်းကြပ်လတ္တံ့ ဖြစ်သော အခွန်အတုတ်အားလုံးကို ပေးဆောင်ရန်။

(ခ) ဤစာချုပ်ချုပ်ဆိုသည့်နေ့မှ ၆-လအတွင်း စတင်ဆောက်လုပ်၍ နှစ်နှစ်အတွင်း အဆိုပါမြေကွက်ပေါ်၌ ကောင်းမွန်ခိုင်ခံ့သော **စက်မှုလက်မှုလုပ်ငန်း**ရအာဏာပိုင်နှင့် သက်ဆိုင်သည့်တရားဥပဒေများနှင့် အညီ၊ ပြီးစီးအောင် **စက်မှုလက်မှုလုပ်ငန်း** နေအိမ်စသည်တို့ကို အဆိုပါနှစ်ပေါင်းခြောက်ဆယ်ကာလ အပိုင်းအခြားအတွင်း ပြုပြင်မွမ်းမံထားရှိရန်။ **အခြေခံဆောက်အဦး**

(ဂ) အဆိုပါမြေကွက်တည်ရှိသော ရပ်ကွက်၌ သက်ဆိုင်ရာဒေသန္တရအာဏာပိုင်များက မိလ္လာပိုက်နှင့် ရေပိုက်များ ချထားလျှင်၊ ဒေသန္တရအာဏာပိုင်နှင့် သက်ဆိုင်သည့်တရားဥပဒေနှင့်အညီ အဆိုပါမြေကွက်ပေါ်၌ ဆောက်လုပ်ထားသော အဆောက်အအုံများကို ထိုမိလ္လာပိုက်၊ ရေပိုက်များနှင့် ဆက်သွယ်ရန်။

(ဃ) သက်ဆိုင်သော ဒေသန္တရအာဏာပိုင်က ခွင့်ပြုသော အဆောက်ခွဲနှင့် အလုပ်သမားတန်းလျားများမှအပ အဆိုပါမြေကွက်ပေါ်၌ **စက်မှုလက်မှုလုပ်ငန်း** ဆက်ပို၍ မဆောက်လုပ်ရန်။

(င) အငှားချထားသူ၏ စာဖြင့် သဘောတူညီချက်ကို ကြိုတင်မရရှိဘဲ၊ နှစ်ပေါင်းခြောက်ဆယ်ကာလအပိုင်းအခြား အတွင်းအဆိုပါ မြေကွက်ကို **စက်မှုလက်မှုလုပ်ငန်း**ရန်အတွက် မှတစ်ပါး၊ အခြားကိစ္စအတွက် အသုံးမပြုရန်နှင့် အဆိုပါ မြေကွက်ပေါ်တွင် ဆောက်လုပ်သည့် **စက်မှုလက်မှုလုပ်ငန်း အခြေခံဆောက်အဦး** ကို အခြားနည်း အသုံးမပြုရန်။

(စ) အငှားချထားသူ၏ စာဖြင့် ကြိုတင်သဘောတူညီချက်မရရှိဘဲ၊ စာချုပ်ပါမြေကို ခွဲခြမ်းခြင်းမပြုရသည့်ပြင် ၎င်းမြေ တစ်စိတ်တစ်ဒေသကိုလည်း လွှဲပြောင်းခြင်း၊ တစ်ဆင့်ငှားရမ်းခြင်း၊ လက်လွှတ်ခြင်းများမပြုလုပ်ရ။

(ဆ) ဤစာချုပ်နှင့်စပ်လျဉ်း၍ မည်သည့်ကိစ္စအတွက်မဆို၊ အဆိုပါမြေကွက်သို့ဖြစ်စေ၊ အဆိုပါမြေကွက်ပေါ်တွင် ဆောက်လုပ်ထားသော **စက်မှုလက်မှုလုပ်ငန်း**သို့ဖြစ်စေ၊ နှစ်ပေါင်းခြောက်ဆယ် ကာလအပိုင်းအခြားတွင် ပြည်ထောင်စုမြန်မာနိုင်ငံတော် အစိုးရ ဆောက်လုပ်ရေး ဝန်ကြီးဌာန၊ မြို့ရွာနှင့် အိုးအိမ်ဖွံ့ဖြိုးစီးဌာန ညွှန်ကြားရေးမှူးချုပ်၏ အမိန့်အရ ဆောင်ရွက်သူများအား နေ့ခင်း သင့်တော်သည့် အချိန်များတွင် ဝင်ရောက်ခွင့်ပြုရန်။

(ဇ) ဤစာချုပ်အရ အငှားချထားသည့် နှစ်ပေါင်းခြောက်ဆယ်ကာလ အပိုင်းအခြား ကုန်ဆုံးသောအခါ အဆိုပါမြေကွက် တည်ရှိသည့် အဆောက်အအုံ၊ ထိုအဆောက်အအုံနှင့် အမြဲတွဲကပ်ထားသော ပစ္စည်းမပါဝင်စေဘဲ၊ အဆိုပါမြေကွက်ကို အငှားချထားသူအား အေးဆေးစွာပြန်လည်ပေးအပ်ရန်။ သို့ရာတွင် အငှားချထားသူက အပိုဒ် ၂-အရ အဆိုပါမြေကွက်ကို ပြန်လည်သိမ်းယူပြီး စာချုပ်ကိုရုပ်စဲလျှင် အဆိုပါမြေကွက်နှင့် ထိုမြေကွက်ပေါ်တွင်တည်ရှိသည့် အဆောက်အအုံ ထိုအဆောက်အအုံနှင့် အမြဲတွယ်ကပ် ထားသောပစ္စည်းများကို အငှားစာချုပ်ရသူက အငှားချထားသူအား အေးဆေးစွာ ပြန်လည်ပေးအပ်ရန်။

အပိုပဋိညာဉ်ခံချက်များ

ဖော်ပြပါ မြေငှားခနှုန်းသည် ယာယီမျှသာဖြစ်၍ ဧပြီ ၂၀၁၁ ခုနှစ် အတွင်းတွင် ဖြစ်စေ ထိုနောက် အချိန်ကာလတွင် ပြန်လည်ပြင်ဆင်သင့်က ပြင်ဆင်စည်းကြပ်ရန် ဖြစ်သည်။

၂။ အဆိုပါ မြေငှားခကို တောင်းဆိုသည်ဖြစ်စေ၊ မတောင်းဆိုသည်ဖြစ်စေ၊ ကြိုတင်ပေးဆောင်ရမည့် သုံးလပတ်အတွက် မြေငှားခကို သို့တည်းမဟုတ် ၎င်း၏ အစိတ်အပိုင်းကို ထိုသုံးလပတ်၏ ဒုတိယလ ဦးပိုင်းတွင် မပေးဆောင်သဖြင့် မြေငှားခ မပြေကျန်ရှိလျှင် သို့တည်းမဟုတ် အငှားစာချုပ်ရသူသည် အထက်တွင် ဖော်ပြပါရှိသည့် ပဋိညာဉ်ခံချက်များ အတိုင်း လိုက်နာဆောင်ရွက် ရန် ပျက်ကွက်လျှင် ပြည်ထောင်စုမြန်မာနိုင်ငံတော်အစိုးရ ဆောက်လုပ်ရေးဝန်ကြီးဌာန၊ မြို့ရွာနှင့်အိုးအိမ် ဖွံ့ဖြိုးရေးဦးစီးဌာန၏ ညွှန်ကြားရေးမှူးချုပ်သည် အဆိုပါ မြေငှားခကို ရယူရန် ချက်ချင်း အမှုဖွင့်နိုင်သည်။ ထို့ပြင် သို့တည်းမဟုတ် ယခင်က ပဋိညာဉ်ခံ ချက် ဖျက်ကွက်ခြင်းအတွက် အရေးယူပိုင်ခွင့်ကိုဖြစ်စေ၊ အဆိုပါမြေကွက်ပြန်လည်သိမ်းယူနိုင်ခွင့်ကိုဖြစ်စေ စွန့်လွှတ်ခဲ့စေကာမူ ဤစာ ချုပ်ကို ပယ်ဖျက်၍ အဆိုပါ မြေကွက်နှင့် ထိုမြေကွက်ပေါ်တွင် တည်ရှိသော အဆောက်အအုံများ၊ ထိုဆောက်အအုံများနှင့် အမြဲတွယ်ကပ်ထားသော ပစ္စည်းများကို သိမ်းယူနိုင်သည်။

[redacted]စာချုပ်အရ အငှားချထား ။ ။ ပုံမညာသည့်စက်မှုလုပ်ငန်းကိစ္စအတွက်မဆိုးထားဆိုဝါမြေဝေါ်ရှိ စက်ရုံလုပ်ငန်းမှ ထွက်ရှိသည့် အသံအရလည်းကောင်း၊ အနံ့အရလည်းကောင်း၊ အမြင်အာရုံ အရလည်းကောင်း၊ ဝါတ်ဝန်းကျင်အား ထိခိုက်မှုမရှိအောင် ဆောင်ရွက်ရန်နှင့် ဝါတ်ဝန်းကျင် ထိခိုက်မှုရှိကြောင်းစိစစ်တွေ့ရှိပါက ဤစာချုပ်ကိုပယ်ဖျက်ပြီး အဆိုပါမြေကွက်နှင့် ထိုမြေကွက် ပေါ်ရှိ ... ...

၃။ အငှားချထားသူသည် အငှားစာချုပ်ရသူအား အောက်ပါအတိုင်း ပဋိညာဉ်ခံချက် ပြုလုပ်သည်။

(က) အပိုဒ် ၂-အရ၊ ဤစာချုပ်ကို ပယ်ဖျက်ကြောင်း နို့တစ်စာကို အငှားချထားသူက မိမိ သင့်လျော်သည်ဟု ထင်မြင်သည့် နည်းလမ်းအတိုင်း အငှားဂရန် ရသူ၏ နောက်ဆုံး သိရှိရသော လိပ်စာတပ်ပြီး ရေစစ္စတြီပြုလုပ်၍ စာပို့တိုက်မှ ပေးပို့နိုင်သည်။ သို့တည်းမဟုတ် ဆိုခဲ့သည့်အတိုင်း လိပ်စာတပ်၍ နို့တစ်စာကို အဆိုပါမြေကွက်၊ အဆောက်အအုံ စသည့် ပစ္စည်းများ၏ ထင်ရှား၍ လူအများမြင်သာသောနေရာတွင် ကပ်ထားနိုင်သည်။ အဆိုပါ နို့တစ်စာကိုပြဆိုသည့်နည်းလမ်းအတိုင်းပို့ခြင်း၊ ကပ်ထားခြင်း ပြုလုပ်ပြီးနောက် ရက်ပေါင်း ခြောက်ဆယ်အတွင်း အငှားစာချုပ် ရသူက အဆိုပါ ညွှန်ကြားရေးမှူးချုပ်အား မပြေကျန်ရှိနေသေးသော မြေငှားခကို ဤစာချုပ်ပယ်ဖျက်ခြင်း သို့တည်းမဟုတ် အဆိုပါမြေကွက် ပြန်လည်သိမ်းယူခြင်း၊ သို့တည်းမဟုတ် အဆိုပါမြေကွက်ကို ပြန်လည် အငှားချထားခြင်းနှင့် စပ်လျဉ်း၍ အငှားချထားသူက ကုန်ကျသောစရိတ် အားလုံးနှင့်တကွ အဆိုပါ ညွှန်ကြားရေးမှူးချုပ်သို့ ပေးဆောင်လျှင်သော်လည်းကောင်း၊ အခြားပဋိညာဉ်ခံချက် တစ်ခုခုနှင့် စပ်လျဉ်း၍ ဖျက်ကွက်သည့်အတွက် နစ်နာမှုကို ပပျောက်စေရန် အဆိုပါ ညွှန်ကြားရေးမှူးချုပ် ကျေနပ်လောက်အောင် ဆောင်ရွက်လျှင် လည်းကောင်း အငှားချထားသူက ဤစာချုပ်ပါ ပဋိညာဉ်ခံချက်များအတိုင်း နှစ်ပေါင်းခြောက်ဆယ် ကာလအပိုင်းအခြား၏ ကျန်ရှိနေသေးသော ကာလအဖို့ အဆိုပါမြေကွက်နှင့် ပြန်လည် သိမ်းယူသည့်အချိန်တွင် ထိုမြေကွက်ပေါ်၌တည်ရှိနေသော အဆောက်အအုံ၊ထို အဆောက်အအုံနှင့် အမြဲတွယ်ကပ်ထားသော ပစ္စည်းများကို လက်ရှိ ထားနိုင်စေခြင်းငှာ အငှားစာချုပ်ရသူအား ပြန်လည်ပေးအပ်ရန်။ သို့ရာတွင် မီးကြောင့်သော်လည်းကောင်း၊ အခြား အကြောင်း တစ်ခုခုကြောင့်သော်လည်းကောင်း ပျက်စီးရသည့် အဆောက်အအုံ သို့တည်းမဟုတ် ထိုအဆောက်အအုံနှင့် အမြဲတွယ်ကပ်ထားသော ပစ္စည်းများကို ပြန်လည်ပေးအပ်ရန် အငှားချထားသူ၌ တာဝန်မရှိသည့်အပြင် ယင်းသို့ ပြန်လည်သိမ်းယူ သည့်အခါက ပြည်ထောင်စုမြန်မာနိုင်ငံတော်အစိုးရ ဆောက်လုပ်ရေးဝန်ကြီးဌာန၊မြို့ ရွာနှင့်အိုးအိမ်ဖွံ့ဖြိုးရေးဦးစီးဌာန၏ အမှုထမ်းများ သို့တည်းမဟုတ် ကိုယ်စားလှယ်များ၏ ဖျက်လိုဖျက်ဆီးပြုလုပ်မှုကြောင့် ဆုံးရှုံးပျက်စီးခြင်းအတွက်မှတစ်ပါး အဆိုပါမြေကွက် ပေါ်တွင် ဖြစ်စေ၊ အထဲတွင်ဖြစ်စေ တည်ရှိသော အဆောက်အအုံနှင့် အခြားပစ္စည်းများ၏ တန်ဖိုးယုတ်လျော့ခြင်း၊ ပြုပြင်မှုကင်းမဲ့ခြင်း၊ သို့တည်းမဟုတ် ပျက်ဆီးယိုယွင်းခြင်းအတွက်ပြည်ထောင်စုမြန်မာနိုင်ငံတော်အစိုးရ ဆောက်လုပ်ရေးဝန်ကြီးဌာန၊မြို့ ရွာနှင့်အိုးအိမ်ဖွံ့ ဖြိုးရေး ဦးစီးဌာန၌ တာဝန်မရှိစေရန်။

(ခ) အပိုဒ် ၂-အရ၊ ဤစာချုပ်ကိုပယ်ဖျက်ပြီး မဟုတ်လျှင်လည်းကောင်း၊ အငှားစာချုပ်ရသူကနှစ်ပေါင်းခြောက်ဆယ် ကာလအပိုင်းအခြား ကုန်ဆုံးသည့်အထိ အဆိုပါမြေငှားခကိုပြေလည်အောင် ပေးဆောင်၍ ဤစာချုပ်ပါမိမိပြုလုပ်သည့် ပဋိညာဉ်ခံချက်များအတိုင်း လိုက်နာဆောင်ရွက်လျှင်လည်းကောင်း အငှားစာချုပ်ရသူသည် အဆိုပါမြေကွက်ပေါ်တွင် တည်ဆောက်တွယ်ကပ်ထားသောအဆောက်အအုံများ၊ ထိုအဆောက်အအုံများနှင့် အမြဲတွယ်ကပ်ထားသော ပစ္စည်းများကို အဆိုပါကာလအပိုင်းအခြားမကုန် မီ ခြောက်လအတွင်း ဖျက်သိမ်းသယ်ယူ ခန့်ခွဲနိုင်သည်။ သို့ရာတွင် ထိုသို့ သယ်ယူခြင်းကြောင့် အဆိုပါမြေကွက်ပျက်စီးယိုယွင်းခဲ့ လျှင် ထိုမြေကွက်ကိုမူရင်းအခြေအနေအတိုင်းရှိအောင် ပြုပြင်ပေးရန်။

(ဂ) (၂၀၂၆)ခုနှစ်၊ ဩဂုတ် လ၊ (၂၅)ရက်နေ့မှစ၍ ပထမတဆယ့်ငါးနှစ် ကုန်ဆုံးသည့် အခါ ဒုတိယတဆယ့်ငါးနှစ်အတွက် ရန်ကုန်စည်ပင်သာယာရေး မြေနည်းဥပဒေ ၂၄-အရ စည်းကြပ်သော သုံးလပတ်မြေငှားခကို လည်းကောင်း၊ ဒုတိယတဆယ့်ငါးနှစ်ကုန်ဆုံးသည့်အခါ တတိယတဆယ့်ငါးနှစ်အတွက် အဆိုပါ နည်းဥပဒေ ၂၄-အရ စည်းကြပ်သော သုံးလပတ်မြေငှားခကိုလည်းကောင်း၊ တတိယတဆယ့်ငါးနှစ်ကုန်ဆုံးသည့်အခါ စတုတ္ထတဆယ့် ငါးနှစ်အတွက် အဆိုပါနည်းဥပဒေ ၂၄-အရ စည်းကြပ်သောသုံးလပတ်မြေငှားခကိုလည်းကောင်း အငှားစာချုပ်ရသူက အငှားချထားသူအား ပေးဆောင်ရန်။ အကယ်၍ အထက်ပါနည်းလမ်းအတိုင်း မြေငှားခကိုပြန်လည်စည်းကြပ်ခြင်းမပြုလျှင် အငှားစာချုပ်ရသူသည် ဤအပိုဒ်ခွဲတွင်ပြဋ္ဌာန်းထားသည့်နည်းလမ်းအတိုင်း မြေငှားခကိုပြောင်းလဲခြင်းမပြုမီ သတ်မှတ်ထားသည့် စည်းကြပ်ဆဲသုံးလပတ်မြေငှားခကို ဆက်လက်ပေးဆောင်ရန်။

(ဃ) ဤစာချုပ်ပါ အခြားပြဋ္ဌာန်းချက်များတွင် ဆန့်ကျင်လျက်မည်သို့ပင်ပါရှိစေကာမူ ဤစာချုပ် ချုပ်ဆိုသည့်နေ့မှစ၍ ပထမနှစ် ပေါင်းသုံးဆယ်အကြောင်းသတ်မှတ်ထားသော သို့တည်းမဟုတ် ပြန်လည်စည်းကြပ်သောမြေငှားခကို ပြေလည်အောင် ပေးဆောင်ခဲ့သောကြောင်း လည်းကောင်း၊ ပြုလုပ်ထားသည့်ပဋိညာဉ်ခံချက်များကို မပျက်မကွက်လိုက်နာဆောင်ရွက်ခဲ့သောကြောင့် လည်းကောင်း သတ်မှတ်ထားသော သို့တည်းမဟုတ် ပြန်လည်စည်းကြပ်သောသုံးလပတ် မြေငှားခဖြင့်နောက်ထပ် နှစ်ပေါင်း သုံးဆယ်အတွက် ဆက်လက်၍ အဆိုပါမြေကွက်ကို ငှားရမ်း မြေငှားစာချုပ် အသစ် ချုပ်ဆိုရန် သဘောတူကြောင်း အဆိုပါ ပထမ နှစ်ပေါင်းသုံးဆယ်မပြည့်မီ အနည်းဆုံးခြောက်လကြိုတင်၍ အငှားရသူက အငှားချထားသူအား စာဖြင့် အကြောင်းကြားရမည်။ အကြောင်းကြားစာနှင့်အတူ ပထမမြေငှားစာချုပ်ကိုပေးအပ်လျှင် ထိုအကြောင်းကြားစာရရှိသည့်နေ့မှ ခြောက်လ အတွင်းနောင် နှစ်ပေါင်းသုံးဆယ်အတွက် ပထမမြေငှားစာချုပ်ပါ ပဋိညာဉ်ခံချက်များနှင့်ဖြစ်နိုင်သမျှ တူညီသည့် ပဋိညာဉ် ခံချက်များပါရှိသည့် မြေငှားစာချုပ် အသစ်ကို အငှားစာချုပ်ရသူ၏ စရိတ်ဖြင့် အငှားချထားသူကထုတ်ပေးရန်။ အကယ်၍ မြေငှားခကို သတ်မှတ်ခြင်းမရှိသေးလျှင် ပထမမြေငှားစာချုပ်အရ နောက်ဆုံးပေးဆောင်ခဲ့ရသော သုံးလပတ်မြေငှားခကို အငှားစာချုပ်ရသူကပေးဆောင်ရန်။

ဤစာချုပ်ပါစကားရပ်များကိုသိရှိနားလည်ကြပြီးဖြစ်သဖြင့်ပြည်ထောင်စုမြန်မာနိုင်ငံတော်အစိုးရဆောက်လုပ်ရေးဝန်ကြီးဌာန၊ မြို့ ဌာနနှင့် အိုးအိမ်ဖွံ့ ဖြိုးရေးဦးစီးဌာန ညွှန်ကြားရေးမှူးချုပ်၊ ဒုတိယညွှန်ကြားရေးမှူးချုပ်နှင့် ညွှန်ကြားရေးမှူးတို့ရှေ့တွင် ဦးစီးဌာနတံဆိပ်ကိုခပ်နှိပ်၍ အဆိုပါညွှန်ကြားရေးမှူးချုပ်နှင့်အဆိုပါ ဒေါ်ကျင်သန်း သည် ဤစာချုပ်ကိုအထက်၌ဖော်ပြခဲ့သည့်နေ့တွင် လက်မှတ် ရေးထိုးကြကြောင်း။

ပြည်ထောင်စုမြန်မာနိုင်ငံတော်အစိုးရ၊ ဆောက်လုပ်ရေးဝန်ကြီးဌာန မြို့ ဌာနနှင့်အိုးအိမ်ဖွံ့ ဖြိုးရေး ဦးစီးဌာန

မြို့ - ရန်ကုန်

တံဆိပ်ကို ညွှန်ကြားရေးမှူးချုပ် [redacted] ဒေါ်အောင်စန်း ညွှန်ကြားရေးမှူးချုပ်

ဒုတိယညွှန်ကြားရေးမှူးချုပ် ဦးခင်စိုး ဒုတိယညွှန်ကြားရေးမှူးချုပ်

နှင့် ညွှန်ကြားရေးမှူး ဦးအောင်ကျော်ဦး တို့
ရှေ့မှောက်၌ ခပ်နှိပ်၍ အဆိုပါ
ညွှန်ကြားရေးမှူးချုပ်၊ ဒုတိယညွှန်ကြားရေးမှူးချုပ်နှင့်
ညွှန်ကြားရေးမှူးတို့လက်မှတ် ရေးထိုးသည်။

ညွှန်ကြားရေးမှူး

အသိသက်သေ။

ဒုတိယညွှန်ကြားရေးမှူး (မြေနှင့်အခွန်) ဦးဟန်ချိုဦး

အငှားစာချုပ်ရသူ ဒေါ်ကျင်သန်း က
လက်မှတ်ရေးထိုးသည်။

ကျင်သန်း

အငှားစာချုပ်ရသူ

အသိသက်သေ။

၁။ ဒေါ်ရင် ...

၂။

ဦးစိုးအာထုရှိ
မြေနှင့်အခွန်ဌာနခွဲ
မြို့ ဌာနနှင့်အိုးအိမ်ဖွံ့ဖြိုးရေးဦးစီးဌာန

အထက်တွင် ရည်ညွှန်းထားသည့် မြေယာ

ခွင့်ပြုပြီးမြေပုံဖြစ်သော လူနေရပ်ကွက်အမှတ် ရွှေလင်ဗန်းစက်မှုမြို့ ယက်ဆောက်ညွှန်ကြား ရေးမှူး
မြေတိုင်းရပ်ကွက်အမှတ် ၂၅ မြေနှင့်အခွန်ဌာနခွဲ(မှုံးချုပ်)
ရန်ကုန်မြို့ လှိုင်သာယာ မြို့နယ်။

အတွင်းရှိ တန်းစား၊ မြေကွက်အမှတ် ၂၄၀
ဖြစ်သည်။ ပူးတွဲပါ မြေပုံ၌ မင်နီဖြင့် ပြထားသော အလျား ၂၁၀' ပေ၊ အနံ ၄၄၄' ပေခန့်ရှိသော အလား အလာ
အရှေ့လားသော် ဖြူကွက်အမှတ် ၂၂၀၊၂၄၁
အနောက်လားသော် ဖြူကွက်အမှတ် ၂၄၉
တောင်လားသော် လမ်း
မြောက်လားသော် ဖြူကွက်အမှတ် ၂၂၁
အတွင်းရှိ မြေအားလုံး ဧရိယာ ၀.၆၁၀ ဧက၊ (စတုရန်းပေ ၇၀၁၄၀)

113

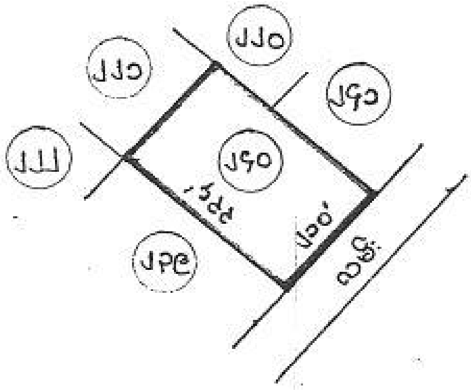
မူရင်း

ရန်ကုန်မြို့တော်

အိုးအိမ်ပုံစံ
အက်စ် – ၂၂

---------လှိုင်သာယာ-- မြို့နယ်၊ လူနေရပ်ကွက်အမှတ် ---ရွှေလင်ပန်းစက်မှုဇုန်---
မြေတိုင်းရပ်ကွက်အမှတ် -------၂၅------- မှ မြေကွက်အမှတ် --------၂၄၀-------- ၏မြေပုံ

၁ – လက်မလျှင် ၁၀၀ ပေ စကေး



ရည်ညွှန်းချက်

---------------- ဧရိယာ

စတုရန်းပေ --------၇၀၁၄၀--------
ဧက --------၁.၆၁၀--------

မြေတိုင်း (၄)   မြေတိုင်း (၃)   မြေတိုင်း (၂)

ဒုတိယညွှန်ကြားရေးမှူး
မြေတိုင်းဌာနခွဲ
မြို့ရွာနှင့် အိုးအိမ်ဖွံ့ဖြိုးရေးဦးစီးဌာန

LEASE AGREEMENT

This Lease Agreement (hereinafter referred to as the "Agreement") is made in Yangon Region, the Republic of the Union of Myanmar on this day of January 31, 2014 and entered into by and between

Daw Kyin Than (12/Ta Ma Na (Naing) 074346), residing No. (61), 134th Street, Tamwe Township, Yangon Region, the Republic of the Union of Myanmar (hereinafter referred to as the "LESSOR", which expression shall include himself, his beneficiaries, lawful successors, legal representatives and lawful assignees) on the ONE PART;

AND

DENSO INDUSTRY YANGON *LIMITED*, (to be incorporated) a private Foreign Company Limited by shares, incorporated under the Union of Myanmar Foreign Investment Law and the Myanmar Companies Act, represented for this purpose by its Managing Director, (hereinafter referred to as the "LESSEE", which expression shall, except where, the context requires another and different meaning thereof, include its successors, legal representatives and permitted assigns) on the OTHER PART;
(The LESSOR and the LESSEE are hereinafter jointly referred to as "the Parties", including any successors by Law to replace "the Parties" independently referred to as "the Party").

WITNESSES

WHEREAS the LESSEE desires to enter into this Agreement for utilizing the land measuring 12,800 sq-ft, together with the building on the land including one (1) electric meter situated on No. (240), Depeyin Wun Htauk U Myae Street, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon Region, the Republic of the Union of Myanmar as fully described in Appendix (A), attached hereto (this Appendix (A) shall form integral part of this Agreement), for the purpose of manufacturing wiring harness for consumer products and industrial use.

(The land, building and appliances and equipment mentioned above, are hereinafter collectively referred to as the "Premises". For the avoidance of doubt, the Premises shall include only 12,800 sq-ft area indicated in blue collar in Appendix (A) ,not the area mentioning the words "Area not to be rented".)

WHEREAS the LESSOR desires to lease the Premises, as mentioned in Appendix (A), which are solely owned by the LESSOR, and

WHEREAS, the LESSOR and the LESSEE are legally competent and authorized to enter into this Agreement,

NOW, THEREFORE, THE PARTIES HEREBY MUTUALLY AGREE AS FOLLOWS:

Article 1: SCOPE OF AGREEMENT

1.1 In consideration of the rent hereinafter reserved or payable, and the covenants hereinafter contained, the LESSOR hereby leases unto the LESSEE all of the Premises as mentioned in Appendix A, situated at No. (240), Depeyin Wun Htauk U Myae Street, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon Region, the Republic of the Union of Myanmar for the initial term of four (4) years.

1.2 On expiry of initial four (4) years' term, the lease hereunder shall at the discretion of the LESSEE, be renewed for further terms.

Article 2: LEASE RENTAL

2.1 The lease rental for the Premises mentioned in Article 1.1 for four (4) years' lease term shall be as shown in Appendix A :

Article 3: LEASE DURATION

3.1 The term of the lease hereunder shall be initially for four (4) years from the commencement date on March 1, 2014 to the expiration date on February 28, 2018.

3.2 Notwithstanding the above Article 3.1 the lease hereunder may be extended for a further term at the request of the LESSEE for the extension thereof, and in such case consent shall be given by the LESSOR. Provided that the LESSESS shall communicate intention of renewal in writing to the LESSOR at least eight (8) months prior to the expiration date of the lease.

Article 4: EFFECTIVE DATE OF THE LEASE

The effective date of this Agreement shall be the date on which this Agreement is signed by both the LESSOR and the LESSEE.

Article 5: PAYMENT OF RENT

5.1 The LESSEE shall pay the yearly rents as shown inAppendix A:

Article 6: LESSEE'S OBLIGATIONS

6.1 The LESSEE hereby covenants with the LESSOR for the followings:

(1) to utilize the leased Premises exclusively for the business activities permitted by Myanmar Investment Commission and relevant authorities.

(2) to ensure that all activities and operations on the leased Premises or any part thereof are in conformity with the Laws, Rules, Regulation and Directives of the Government of the Republic of the Union of Myanmar.

(3) to keep the leased Premises in good condition at the cost of the LESSEE throughout the lease term.

(4) to protect environmental pollution and social impact on and around the leased Premises hereunder from befalling in accordance with the Laws, Rules, Regulations and Directives of the Government of the Republic of the Union of Myanmar.

(5) to pay regularly the rents, charges and other payments due or payable to LESSOR in accordance with the terms of this Agreement.

(6) to pay municipal taxes, utility charges such as electricity, water, telephone, internet etc. accrued during the lease period.

(7) to report in accordance with the Local Laws, to the authorities concerned regarding the employees or guest staying within the Premises.

(8) To allow the LESSOR to visit the "Premises" in time of need.

Article 7: LESSOR'S OBLIGATIONS

7.1 The LESSEE performing and observing the convents hereinbefore contained the LESSOR hereby covenants with the LESSEE as follows:

(1) that the LESSEE shall peacefully and quietly hold the leased Premises and utilize for the business activities during the term of this Agreement without any interruption or disturbance of whatsoever nature by the LESSOR or any person or persons whomsoever lawfully claiming to represent the LESSOR.

(2) that the LESSOR shall give full co-operation and assistance to LESSEE in liaison with the local authorities upon the request of the LESSEE.

(3) that the LESSOR shall pay for all land taxes, charges and other impositions of whatever nature (excluding municipal taxes and utilities - electricity, water, telephone, internet, etc. - to be paid by LESSEE) to the relevant authorities of the Republic of the Union of Myanmar as well as assessment of similar nature imposed on the leased Premises hereunder;

(4) that the LESSOR shall, in the event the factory building is temporarily damaged, due to natural disaster, thus preventing from continuation of operation, repair the damages as soon as possible at his own cost and that time taken for such repairs shall be excluded from the calculation of Lease period.

Article 8: LESSOR'S RIGHTS

8.1 If the LESSEE, in any substantial respect, fails to perform or observe the terms and conditions of the lease hereunder and fails to rectify such non-performance or non-observance within thirty (30) days from the notification in writing from the LESSOR of such default, the LESSOR shall be at liberty to re-enter upon and take possession of the whole complex of the lease hereunder and the lease hereunder shall, thereupon, cease and determine with a notice of such intention to the LESSEE.

Article 9: LESSEE'S RIGHTS

9.1 The LESSEE shall have the right to install any fixtures or fittings within the leased Premises according to its business requirement at LESSEE'S cost. The LESSEE shall have the right to start alternation to the Premises upon the execution of this Agreement. The alteration shall include but not limited to installing windows in the existing walls, building additional office or toilet on the Premises, and constructing supply and drain water system.

9.2 The LESSEE shall, upon termination of this Agreement have the right to remove and take away such additions made by the LESSEE without affecting the property of the LESSOR.

9.3 The LESSEE shall have the right to assign this Agreement or to sublet the whole or part of the Premises only after receiving the consent in writing from the LESSOR.

Article 10: GOVERNING LAW

This Agreement shall be read, construed, interpreted and governed, in all respects, by the Laws of the Republic of the Union of Myanmar.

Article 11: REPRESENTATION AND WARRANTY

11.1 Each party represents and warrants to the other that each is duly authorized under the relevant Laws and has the right, power, sound financial standing and authority to enter into this Agreement.

11.2 The LESSOR represents and warrants that the leased Premises is free from all encumbrances and that the LESSOR has and will retain the legal, beneficial and good title of leasehold to the leased Premises hereunder, and that there has been or will be no such failure on the part of the LESSOR to perform its obligations under the relevant Laws, Rules, Regulations and Directives of the Republic of the Union of Myanmar and/or the contract(s) with the Government of the Republic of the Union of Myanmar as may make adverse effect on the LESSOR's retention of the said title.

Article 12: CONDITION SUBSEQUENT

The Parties acknowledge that this Agreement is conditional upon receipt of Investment Permit from MIC, Incorporation of DENSO Industry Myanmar Limited, and obtaining all necessary approval from relevant authorities of the Government of the Republic of the Union of Myanmar. If these conditions are not met, this Agreement shall be null and void , and the LESSOR shall repay the remaining balance of rent with the security deposit to the LESSEE.

Article 13: RENEGOTIATION OF AGREEMENT

In the event that any situation or condition arises owing to circumstances not envisaged in this Agreement and that it warrants amendments to this Agreement, the parties hereto shall make necessary negotiations with a view to make such amendments.

Article 14: LAW OF PERFORMANCE

Both parties shall carry out their obligations arising out of this Agreement according to the Laws, Rules, Regulations, Directives and Procedures of the Republic of the Union of Myanmar.

Article 15: TERMINATION

15.1 This Agreement shall terminate upon expiry of the lease duration as stipulated in Article 3 unless it is renewed pursuant to the Parties'

mutual agreement. The intention of renewal or termination shall be communicated at least eight (8) months prior to the expiration date of the lease (the "Notice Deadline"). If a termination notice is given beyond the Notice Deadline, the expiration date of the lease shall be extended for the delayed dates.

15.2 This Agreement shall also be terminated upon occurrence of any of the following events:

(1) breach of any conditions of this Agreement by either party, without rectification within thirty (30) days from written notification of the other party, or

(2) force majeure as fully described in Article 16 persisting for more than two (2) months from the occurrence thereof.

Provided that the LESSEE shall give thirty (30) days written notice to the LESSOR expressing the intention of such termination.

Article 16: FORCE MAJEURE

16.1 If either Party is temporarily rendered unable wholly or partly by force majeure to perform his/its obligations or accept the performance of the other Party under this Agreement, the affected Party shall give notice to the other Party within thirty (30) days after the occurrence of the cause relied upon, giving full particulars in writing of such force majeure. The duties of such Party as is affected by such force majeure shall, with the approval of the other Party, be suspended during the continuance of the disability so caused, but for no longer period than reasonable, and such cause shall, as far as possible, be removed with all reasonable dispatch. Neither Party shall be responsible for delay caused by force majeure.

16.2 The term "force majeure" as applied herein shall mean Acts of God such as strikes, industrial disturbances, wars, blockades, insurrections, riots, epidemics, civil disturbances, explosions, fires, floods, earth quakes, storms and other causes similar to the conditions as enumerated herein which are beyond the control of either Party and which, by exercise of due care and diligence, either Party is unable to overcome.

Article 17: MINERAL RESOURCES AND TREASURES

Mineral resources, treasures, gems and other natural resources, discovered unexpectedly from, in or under the Premises leased hereunder during the term of this Agreement, shall be the property of the Government of the Republic of the Union of Myanmar, and the

Government of the Republic of the Union of Myanmar shall be at liberty to excavate the above said at any time.

Article 18: INTEGRAL PART OF AGREEMENT

This Agreement together with Appendices hereto shall, for all purposes, form the integral part of the Agreement.

Article 19: NOTICE

Any notice or other communication required to be given or sent hereunder shall be in the English language and be left or sent by prepaid registered post (airmail, if overseas) or facsimile transaction or international courier to the Party concerned at the respective address given underneath or such other address as the Party concerned shall have notified in concurrence with this Article 19 to the other Party.

LESSOR:	Attention:	Daw Kyin Than
	Address:	No. (61), 134th Street Tamwe Township, Yangon The Republic of the Union of Myanmar. Tel: Fax:
LESSEE:	Attention:	(General Manager : Mishima Takashi)
	Address:	DENSO INDUSTRY ASIA CO.,LTD. Flat10,15/F,Shatin Galleria,18-24 Shan Mei Street,Fotan,Shatin,N.T Hong Kong, Tel:(852)-2618-9179 Fax:(852)-2618-6360

Article 20: RETRANSFER OF LEASED PREMISES

20.1 Upon the expiry of lease period, the LESSEE shall transfer the leased Premises to the LESSOR without any consideration and in good condition.

20.2 The LESSEE shall settle in full all dues incurred under this Agreement and shall also provide the LESSOR with documents in support of such settlement.

20.3 The LESSOR shall accept the transfer of the leased Premises on 'as is' basis except windows which are installed by the LESSEE. Upon the LESSOR's request, the LESSEE shall restore the walls as they were.

Article 21:LANGUAGE

21.1 This Agreement shall be written in English and be governed by the Laws of the Republic of the Union of Myanmar.

IN WITNESS WHEREOF THE PARTIES hereto have set their respective hands and affixed their seals hereunder on the day, the month and the year first above written.

For and on behalf of: For and on behalf of:

the LESSOR the LESSEE

Managing Director

In the presence of:

(1) (2)

---------------------------------- ---   ------------------------------------

APPENDIX A

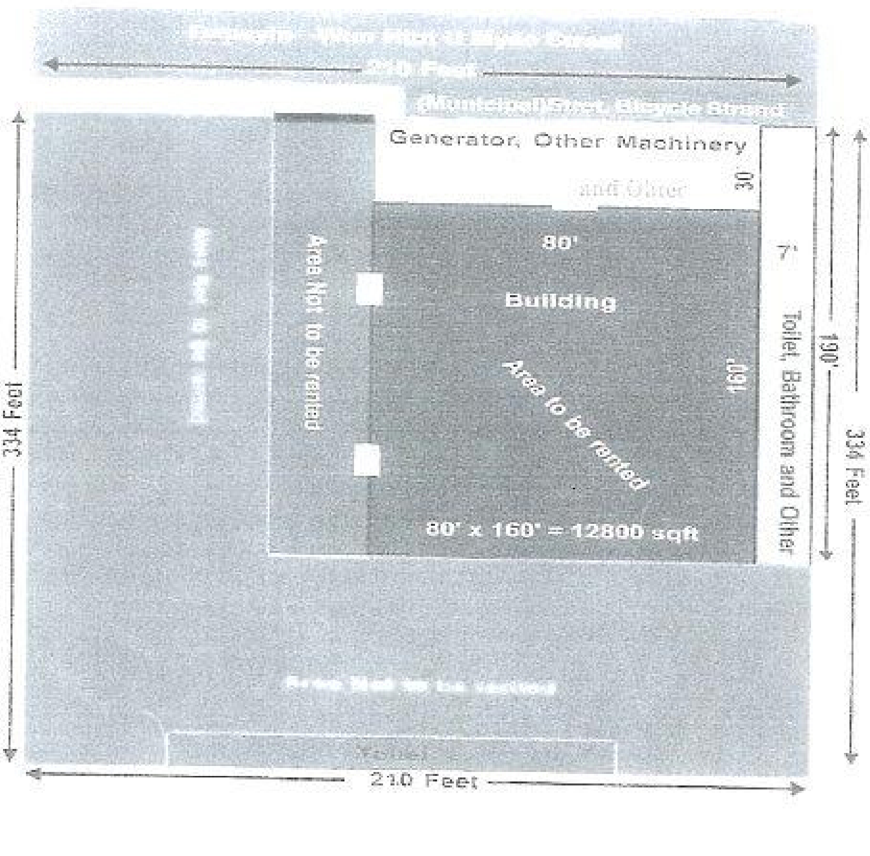
- Payment Rent

Lease Period	Amount of Rent	Time of payment
Year One (1)	USD as Myanmar Kyat 45,600,000 (month [illegible])	LESEE apply the remittance within 2days after signing of this agreement
Year Two (2), Year Three (3), and Year (4)	USD as Myanmar Kyat 136,800,000 (month [illegible])	Within 30 days from the date of obtaining an original certificate of incorporation from the Company Registration Office ("CRO")

* Each payment of USD as Myanmar Kyat apply the spot exchange actual rate on the remittance date.

For the first year USD as Myanmar Kyat 3,800,000/ per month
For the second year USD as Myanmar Kyat 3,800,000/ per month
For the third year USD as Myanmar Kyat 3,800,000/ per month
For the fourth year USD as Myanmar Kyat 3,800,000/ per month

- Land Map



Form (4)

To,

Chairman
Myanmar Investment Commission
Republic of the Union of Myanmar

Ref No:
Date: 20, Month, Day

Subject: **Lease of Land and Building for the permitted investment business**

I, hereby submitted the application with the following particulars for the lease of land and building to be used for the business permitted under section 17, sub-section (e) of the Foreign Investment Law: -

1. Particulars about the original owner of land and building:

   (a) Name of owner/organization Daw Kyin Than

   (b) Area 1.61 Acres, Length 210ft and Breadth 334 ft

   (c) Location No.240, Quarter (25), Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon.

   (d) Original period permitted to use the land (Validity of Land Grant) 60 years (22 Aug 2011 – 21 Aug 2071)

   (e) Payment of long term lease as per investment equity Yes ______ No ✔

   (f) Agreed by original Lesser Yes ✔ No ______

2. Lesser

   (a) Name of Investor/Promoter ______

   (b) Myanmar Investment Commission Permit No. ______

3. Lessee

   (a) Name Mr. Takashi MISHIMA

   (b) National Registration No. / Passport No. TZ0468392

   (c) Citizenship Japan

   (d) Company Name DENSO INDUSTRY YANGON LIMITED

   (e) Address No. 240, Depeyin Wun Htauk U Myae Steet, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon, Myanmar.

4. Particulars relating to land and building in which investment is permitted by Myanmar Investment Commission:-

   (a) Type of Investment 100% Foreign Invetment

   (b) Investment location (s) No. 240, Depeyin Wun Htauk U Myae Steet, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon, Myanmar.

   (c) Area 0.294 Acre, Length 80ft and Breadth 160ft

   (d) Size and No. of Building (s) 1 Building, 24.384m x 48.768m = 1,189.78 square meter

   (e) Value of Land/Building 45,600,000 kyats per year (Land & Building)

5. Original Validity Period permitted by Commission ______________________

6. Period for sub-lease ______________________

7. Important particulars from the original Land and Building Leasing Agreement signed by both parties:

   (a) Lesser Daw Kyin Than

   (b) Lessee Mr. Takashi MISHIMA, DENSO INDUSTRY YANGON LIMITED

   (c) Land Area 0.294 Acre, Length 80ft and Breadth 160ft

   (d) Location No. 240, Depeyin Wun Htauk U Myae Steet, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon, Myanmar.

   (e) Lease Period 4 Years (March 1, 2014 to February 28, 2018)

8. Submission of sub-lease agreement (Draft)
(to enclose recommendation of the Union Attorney General's Office for government organization)

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

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Bank Reference of Business and Financial Standing

NOTARIAL CERTIFICATE

TO ALL TO WHOM THESE PRESENTS SHALL COME:

I, KOO HOI YAN DONALD, Notary Public, duly admitted, authorised and sworn, practicing in Hong Kong Special Administrative Region DO HEREBY CERTIFY that the attached copy document appears to me to be the original Letter dated 24th day of January 2014 from The Bank of Tokyo-Mitsubishi UFJ, Ltd. to the Directorate of Investment and Companies Administration of the Republic of the Union of Myanmar.

IN TESTIMONY, whereof I have hereunto subscribed my name and affixed my Seal of Office this 28th day of January Two Thousand and Fourteen.

KOO HOI YAN, DONALD
NOTARY PUBLIC
HONG KONG SAR
ONC Lawyers
15/F, The Bank of East Asia Building,
10 Des Voeux Road Central, HK

The attesting Notary assumes
no responsibility for the contents
of the annexed documents.

The Bank of Tokyo-Mitsubishi UFJ, Ltd.
MUFG
(Incorporated in Japan with limited liability)
Hong Kong Branch

Date: January 24, 2014

The Director General
Directorate of Investment and Companies Administration
Ministry of National Planning and Economic Development
Office 32, Nay Pyi Taw
Republic of the Union of Myanmar

Dear Sir,

It is with pleasure that we submit this reference letter in respect of Denso Industry Asia Co Ltd, having its principal office at FLAT 10 15/F SHATIN GALLERIA, 18-24 SHAN MEI STREET, FO TAN, NEW TERRITORIES, HONG KONG.

Denso Industry Asia Co Ltd has maintained with us actively conducted Hong Kong Dollars Savings account, Hong Kong Dollars Current account, US Dollars Savings account and US Dollars Current account since November 15, 2013. The company is considered good for normal business engagement and our banking relationship is pleasant. As of the issue date of this reference letter, the aggregate balance of all accounts maintained with our bank is equivalent to Hong Kong Dollars of 7-digit.

This information is given in strict confidence and for your reference only. This bank or any of its officers shall not bear any legal liability in issuing this letter.

Yours faithfully,

For and on behalf of
THE BANK OF TOKYO-MITSUBISHI UFJ, LTD.
KOWLOON BRANCH

S. HITOMI *General Manager*

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EMBASSY OF THE REPUBLIC OF THE UNION OF MYANMAR
4-8-26, Kita-Shinagawa, Shinagawa-Ku, Tokyo, 140-0001
Tel. (03) 3441-9291, Fax. (03) 3447-7394

No. 219/ 48 01 02

This is to certify that the signature of Ms. Ayako OGAWA, official of the Ministry of Foreign Affairs, affixed to accompanying "NOTARIAL CERTIFICATE", under the Yokohama District Legal Affairs Bureau, Registration No. 400248 dated 4th March 2014 is genuine.

The Embassy assumes no responsibility for contents of the documents.

EMBASSY OF THE REPUBLIC OF THE UNION OF MYANMAR TOKYO

For Ambassador,
(Ei Zin Oo, First Secretary)

Dated: 5th March 2014

DECLARATION

I, Tomohiko Aso, do hereby solemnly and sincerely declare that the attached document, translation of Certificate of Balance is a true and correct translation into the English Language.

And I make this solemn declaration conscientiously believing the same to be true and correct.

YOKOHAMA
DISTRICT [illegible] AFFAIRS BUREAU
N[illegible]RY
1-5-10 [illegible] Nishi-ku
YOKOHAMA, JAPAN

Date: March 4, 2014

Signature

Representative Director of

Denso Industry Co., Ltd.

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No. 39

CERTIFICATE OF BALANCE

Date: 21-Feb-2014

Denso Industry Co.,Led. Esq.

Dear Sir (s)
We certify that the deposit (s) we hold in your name show (s) the following amount (s) as at the close of business on 31-Dec-2013 .

Total Balance	¥237,575,563

Kind of Deposit	Amount (s)	Remarks
Ordinary Deposit (s)	¥12,279,607 (equivalent to US$118,655.01 @103.49)	
Current Account (s)	¥85,255,279 (equivalent to US$823,802.10 @103.49)	including following amount(s) unsettled checks ¥475,901
Time Deposit (s)	¥140,040,677 quivalent to US$1,353,180.76 @103.49)	
	End of the page	

※ The US$ in parenthesis is a referential equivalent amount only exchanged by today's exchange rate.

Yours faithfully

For The Bank of Yokohama, Ltd

Shinyokohama Branch

Takashi Oikawa

Manager

131

平成２６年登簿第　７７　号

認　証

デンソー工業株式会社　代表取締役　麻生　智彦　は、本公証人の面前において、添付書面に署名押印した。

よって、これを認証する。

平成２６年　３　月　４　日、本公証人役場において

横浜市西区北幸一丁目5番10号

横浜地方法務局所属

公　証　人　打越康雄

Notary　YASUO UCHIKOSHI

総公証　№　400248　号

証　明

上記署名は、横浜地方法務局所属公証人の署名に相違ないものであり、かつ、その押印は、真実のものであることを証明する。

平成２６年　３　月　４　日

横浜地方法務局長　髙村一之

CERTIFICATE

This is to certify that the signature affixed above has been provided by Notary, duly authorized by the Yokohama District Legal Affairs Bureau and that the Official Seal appearing on the same is genuine.

Date　MAR. 4. 2014

Kazuyuki TAKAMURA

Director of the Yokohama District Legal Affairs Bureau

For legalization by the foreign consul in Japan, this is to certify that the Seal affixed hereto is genuine.

Date　MAR. 4. 2014

A. Ogawa

Tokyo, Ayako OGAWA

Official

Ministry of Foreign Affairs

(Consular Service Division)

Registered No. 77

NOTARIAL CERTIFICATE

This is to certify that Tomohiko Aso, Representative Director of Denso Industry Co., Ltd., signed and sealed the attached document in my presence on this 4 day of March 2014.

YOKOHAMA
DISTRICT LEGAL AFFAIRS BUREAU
NOTARY
Nishi-ku
JAPAN

Yasuo Uchikoshi

YASUO UCHIKOSHI

Notary

Yokohama District Legal Affairs Bureau

1-5-10 Kitasaiwai Nishi-ku

Yokohama-city, Japan

133

No. 372

CERTIFICATE OF BALANCE

Date: 22-Jan-2014

Denso Industry Co.,Ltd. Esq.

Dear Sir (s)
We certify that the deposit (s) we hold in your name show (s) the following amount (s) as at the close of business on 31-Dec-2013 .

Total Balance	¥237,575,563

Kind of Deposit	Amount (s)	Remarks
Ordinary Deposit (s)	¥12,279,607 (equivalent to US$116, 659. 77 @105. 26)	
Current Account (s)	¥85,255,279 (equivalent to US$809, 949. 45 @105. 26)	including following amoun t(s) unsettled checks ¥475, 901
Time Deposit (s)	¥140,040,677 quivalent to US$1, 330, 426. 34 @105. 26)	
	End of the page	

※ The US$ in parenthesis is a referential equivalent amount only exchanged by today's exchange rate.

Yours faithfully

For The Bank of Yokohama, Ltd

Shinyokohama Branch

Miki Kubota

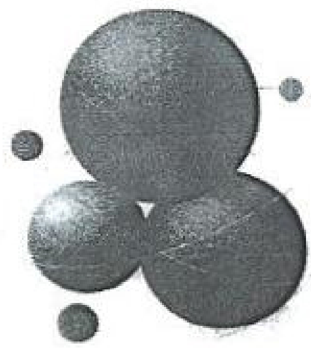
Assistant Manager

Company Profile

DENSO

DENSO INDUSTRY CO.,LTD





We may not be noticeable
Yet we are always there working behind the scenes
DENSO INDUSTRY- A Leading Wire Harness Manufacturer

DENSO INDUSTRY'S wire harnesses and custom cable assemblies are highly rated both by consumer electronics and industrial equipment manufacturers. High volume output with shorter lead-time is one reason, and thorough and consistent quality control is another reason for our reputation. With five manufacturing plants in Japan and China, DENSO INDUSTRY offers full line of wiring harness and custom cable assembly services, from wire processing up to product assembly.

Message from President

Since its foundation in 1958, DENSO INDUSTRY has been dedicating itself to manufacturing electric/electronic parts and grown to be a leading wire harness/custom cable assembly manufacturer serving a broad range of customers in Japan and overseas. While emphasizing on-going education and fostering of employees, we endeavored to build up a team of experts that enables us to promise guaranteed quality and delivery with our customers. Employing a motto "Perseverance brings success in the end," DENSO INDUSTRY strives to be your reliable and trustworthy business partner.

Shigeru Aso
President
DENSO INDUSTRY CO., LTD.

About Us

Company Name	DENSO INDUSTRY CO., LTD.
URL	http://www.denso-k.co.jp
Head Office	Address 4-7 Den-en Chofu Minami, Ota-ku, Tokyo 145-0076 Phone 03-3750-2626 Fax 03-3750-2669
Shin-Yokohama Business Center	Address 2-12-9 Shin-yokohama, Kohoku-ku, Yokohama 222-0033 Phone 045-475-5050 Fax 045-475-5055 (Sales Dep. : Phone : 045-475-5063 Fax : 045-475-5066)
Founded	September 1958
Incorporated	May 1963
Paid-in Capital	JP Yen 50 Million
Fiscal Year Closed	End March
Employees	104
Business Line	Wire harness, cable assembly, ultra-fine wire processing
Plants, manufacturing Facilities	Shin-Yokohma Business Center (ISO 14001 Certified) Toyama Factory (ISO 9001 Certified) Miyagi Factory(ISO 14001 & 9001 Certified)
Group Companies	DENSO KOGYO (HK) LTD. Hong Kong DONG GUAN DENSO ELECTRONICS CO,LTD. Guang Dong China (ISO9001, ISO14001Certified) DENSO ELECTRONICS(SHANGHAI) CO.,LTD. (ISO9001, ISO14001Certified) DENSO INDUSTRY ASIA CO.,LTD Hong Kong
Bank Information	The Bank of Yokohama Ltd., Shin-Yokohama Branch The Bank of Tokyo-Mitsubishi UFJ Ltd., Himonya Office Sumitomo Mitsui Banking Corporation, Kamata Office The Hokuriku Bank Ltd, Kosugi Branch The 77 Bank, Ltd. Ichihasama Branch

Major Customers	Sony Corporation and its group companies Nikon Corporation and its group companies Hoshiden Corporation Kuroda Electric Co.,Ltd. Shimoda Kogyo Co., Ltd.
Major Suppliers	Mikuni Shoji Co., Ltd. Sumiden Shoji Co., Ltd. Bando Densen Co., Ltd. JST Mfg. Co., Ltd. Hirose Electric Co., Ltd. Japan Automatic Machine Co., Ltd. Molex Japan Co., Ltd.

Corporate History

Sep. 1958	Started operation in Ota-ku, Tokyo
May. 1963	Incorporated DENSO INDUSTRY CO., LTD. with paid-in capital JP Yen 500,000
Feb. 1965	Capital increased to JP Yen 1.5 Million
Sep. 1966	New head office/plant building completed at Denen-chofu Minami, Ota-ku, Tokyo
June 1969	Capital increased to JP Yen 5 Million
July 1971	Capital increased to JP Yen 10 Million
Sep. 1971	Commenced operation at Totsuka Factory for assembling audio equipment
June 1974	Capital increased to JP Yen 20 Million
Sep. 1974	Commenced operation at the new building of Toyama Factory
Mar. 1975	Opened Sony Shop Denso as a sales arm
Oct. 1983	New Totsuka Factory completed
Mar. 1984	Renovation of the head office completed
Feb. 1988	TOHOKU DENSO CO.,LTD. started operation
Apr. 1992	DENSO KOGYO (HK) LTD. established in Hong Kong
Nov. 1992	DongGuan plant in china commenced operation
May 1993	DONG GUAN DENSO ELECTRONICS CO,LTD. established in Guangdong, China
Feb. 1997	Capital increased to JP Yen 50 Million
Dec. 2000	Shin-yokohama Business Center celebrated its completion
Mar. 2002	Shin-yokohama Business Center obtained ISO 14001 certification
May 2003	DENSO ELECTRONICS(SHANGHAI) CO.,LTD. established in Shanghai, China
June 2005	Toyama Factory obtained ISO 9001 certification
Mar. 2009	Totsuka Factory closed down
Mar. 2010	Tohoku Denso Co., Ltd. Merged
Jun. 2011	Changed headquarters registration from Ota-ku, Tokyo to Shin-Yokomana, Kohoku-ku, Yokohama
Oct.2013	DENSO INDUSTRY ASIA CO.,LTD established in Hong Kong

Major Customers	Sony Corporation and its group companies
	Nikon Corporation and its group companies
	Hoshiden Corporation Kuroda Electric Co.,Ltd.
	Shimoda Kogyo Co., Ltd.
Major Suppliers	Mikuni Shoji Co., Ltd. Sumiden Shoji Co., Ltd.
	Bando Densen Co., Ltd.
	JST Mfg. Co., Ltd. Hirose Electric Co., Ltd.
	Japan Automatic Machine Co., Ltd. Molex Japan Co., Ltd.

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Nov. 1992	DongGuan plant in china commenced operation
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Jun. 2011	Changed headquarters registration from Ota-ku, Tokyo to Shin-Yokomana, Kohoku-ku, Yokohama
Oct.2013	DENSO INDUSTRY ASIA CO.,LTD established in Hong Kong

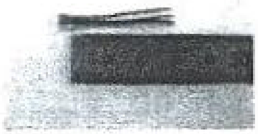
Machines & Tools

Machinery	Manufacturer
Automatic Crimping Machine	JAPAN AUTOMATIC MACHINE CO.,LTD. ShinMaywa Industries, Ltd.
Semi-automatic Crimping Machine	Tyco Electronics Japan G.K. Molex Japan Co., Ltd., J.S.T. Mfg. Co., Ltd. UNION MACHINERY, CO.,LTD KYOCERA ELCO Corporation
Crimping Machine	Tyco Electronics Japan G.K. Molex Japan Co., Ltd. DDK Ltd. J.S.T. Mfg. Co., Ltd. Japan Aviation Electronics Industry, Limited Amphenol Japan Ltd. NICHIFU Co.,ltd SMK Corporation Nihon Weidmüller Co.,Ltd. KYOCERA ELCO Corporation WAGO JAPAN TAJIMI ELECTRONICS CO.,LTD. HIROSE ELECTRIC CO.,LTD honda tsushin kogyo co., ltd FCI LEMO JAPAN Ltd
Fully-automatic Insulation Displacement Machine	Tyco Electronics Japan G.K. J.S.T. Mfg. Co., Ltd.
Applicators	Tyco Electronics Japan G.K. J.S.T. Mfg. Co., Ltd. Molex Japan Co., Ltd., SMK Corporation KYOCERA ELCO Corporation FCI Japan Aviation Electronics Industry,Limited UNION MACHINERY, CO.,LTD JAPAN AUTOMATIC MACHINE CO.,LTD. HIROSE ELECTRIC CO.,LTD Honda tsushin kogyo co.,ltd
Casting Machines	KODERA ELECTRONICS CO., LTD.
Cable Strippers	ORIMVEXTA CO.,LTD. Schleuniger Japan Co., Ltd. MCM Cosmic
Laser	SUNX Limited Beams, Inc.

Products

For Consumer Products Digital Still Cameras, Game Consoles, Camcorders, PCs

IDT (Insulator Displacing Termination)

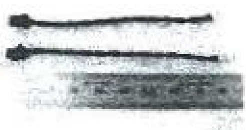


Single-end termination



HDD power cable

Crimping



Both-end termination



TV cable



Taping

Soldering



Both-end soldering



Both-end soldering



Taping

Others



Laptop PC power cable 1



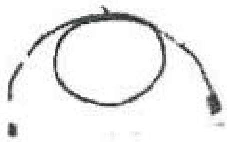
Laptop PC power cable 2



Forming

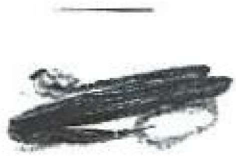
Crimping


Telecom cable


Signal cable

Crimping

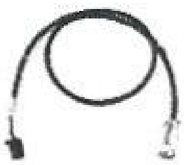






Soldering


Dsub


Camera cable 1


Camera cable 2

Others


Robot cable

Crimping



Telecom cable



Signal cable

Crimping







Soldering



Dsub



Camera cable 1



Camera cable 2

Others



Robot cable

ISO 14001 and Environmental Activities at DENSO INDUSTRY



Following to its first obtaining ISO 14001 certification at Shin-yokohama Business Center in May 2002, DENSO INDUSTRY has been strengthening environment protection efforts among group companies. As a result three group companies, Tohoku Denso, DongGuan Denso Electronics and Denso Electronics (Shanghai), obtained ISO 14001 and ISO 9001 certifications. Through our day-to-day wire harness manufacturing operation, we positively promote eco activities to contribute to sustainable environment with such measures as enforcing green procurement and compliance with RoHS Directive.

Network

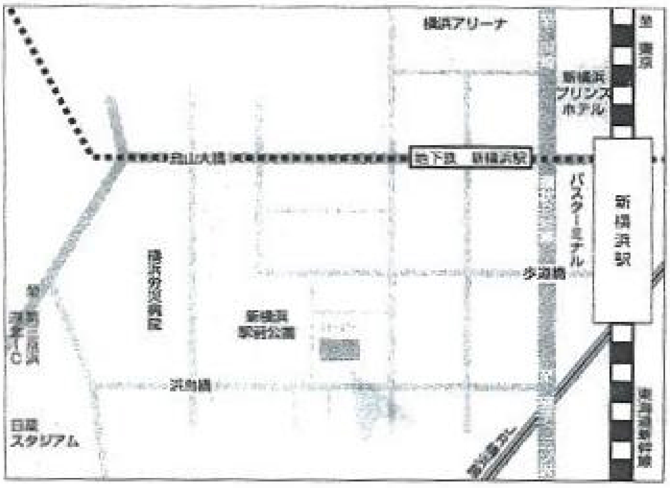
Domestic

Shin-Yokohama Business Center

Address 2-12-9 Shin-Yokohama, Kohoku-ku, Yokohama 222-0033

Phone 045-475-5050 **Fax** 045-475-5055





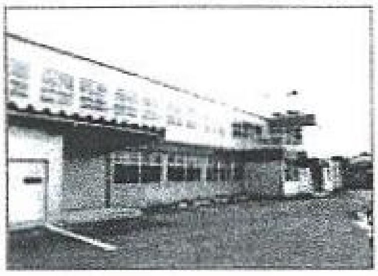
Toyama Factory

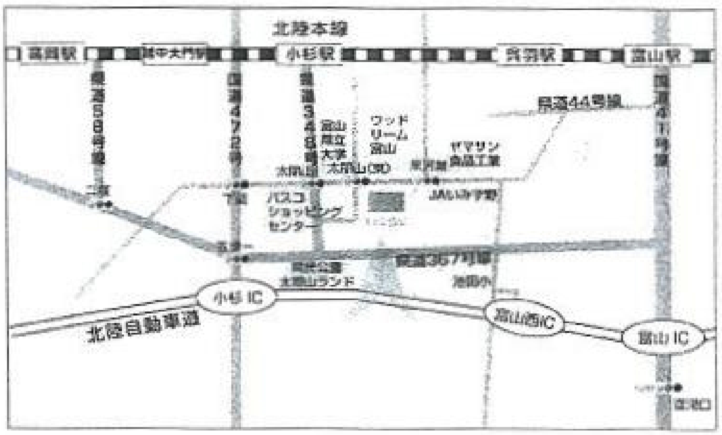
Address 4936 Kurokawashin, Imizu City, Toyama 939-0311

Phone 0766-56-3639 **Fax** 0766-56-6599

Business Line Wire harness, cable assembly

ISO9001 Certified





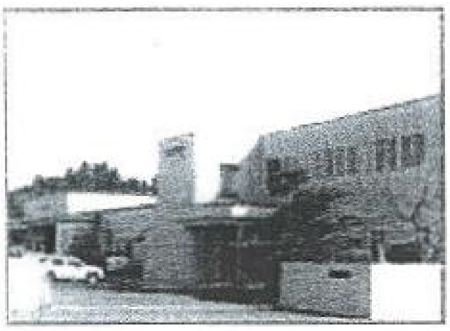
Miyagi Factory (Old Name TOHOKU DENSO CO., LTD)

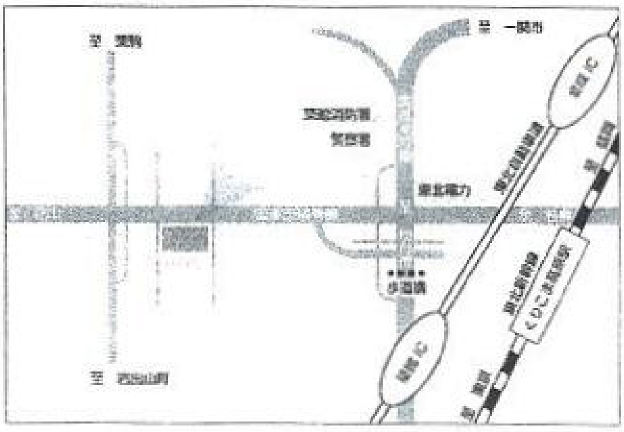
Address 56 Aza-Tennoshita, Ichihasama Yanaginome, Kurihara City, Miyagi 987-2309

Phone 0228-52-3135 **Fax** 0228-52-3133

Business Line Wire harness, cable assembly

ISO9001 & ISO14001 Certified





Overseas

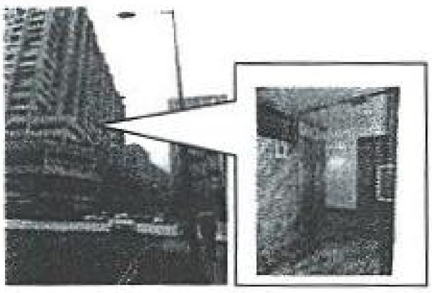
DENSO KOGYO (HK) LTD.

Address Unit 35, 7/F., Blk D, Phase 2, Wah Lok Ind. Centre,No.31-41 Shan Mei Street, Fo Tan, N.T. Hong Kong

Phone +852-2601-1001 Fax +852-2608-1277

Incorporated 1992/4/28

Business Line Sales of Electric Parts





DONG GUAN DENSO ELECTRONICS CO.LTD.

Address No.86 Hao Mai Road, DaoJiao Town Nan Cheng Ind. Area, Dong Guan City, Guangdong Province, China.

Phone +86-769-88834807 Fax +86-769-88833298

Incorporated 1993/5/19

Business Line Wire processing, Wire harness, cable assembly

ISO9001 & ISO14001 Certified

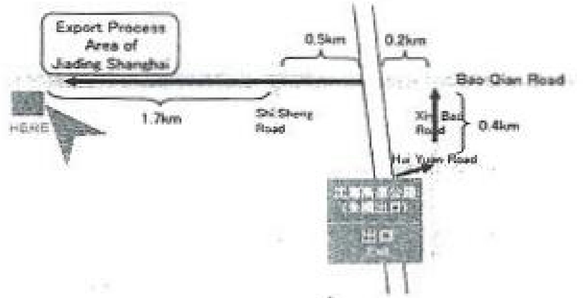




DENSO ELECTRONICS(SHANGHAI) CO.,LTD.

Address	Block 1,No.4585 Baoqian Road,Jiading Area,Shanghai,China
Phone	+86-21-6957-7720 **Fax** +86-21-6957-7730
Incorporated	2003/5/14
Business Line	Wire harness, cable assembly ISO9001 & ISO14001 Certified



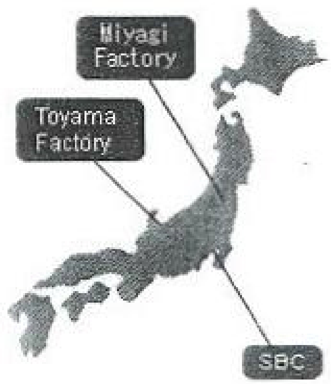


DENSO INDUSTRY ASIA CO.,LTD

Address	Flat 10, 15F , Shatin Galleria, 18-24 Shan Mei Street, Fotan,Shatin, N.T. Hong Kong
Phone	+852-2618-9179 Fax +852-2618-6350
Incorporated	2013/10/9
Business Line	Sales of Electric Parts

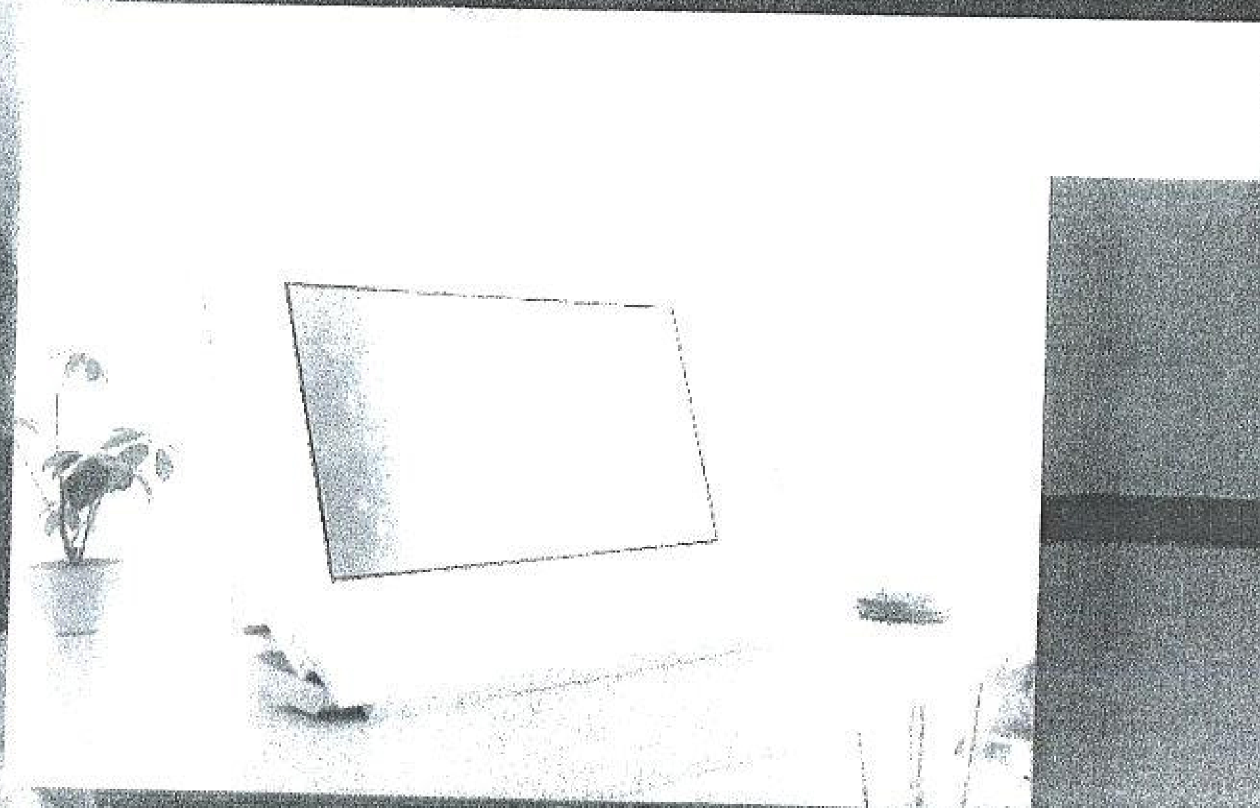


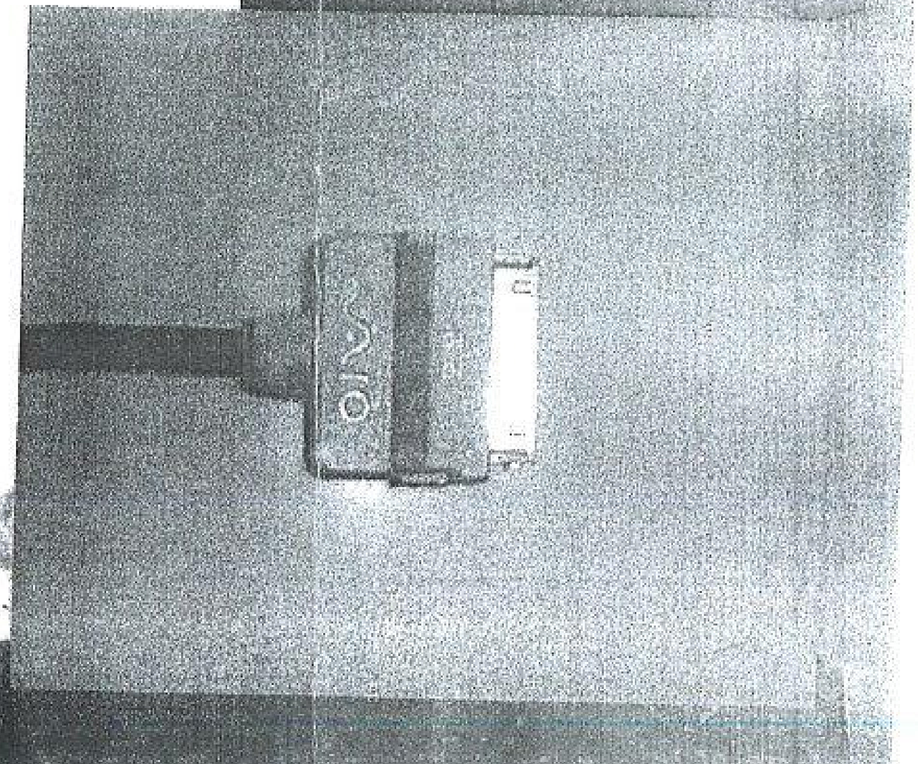




(as of January. 2014)

当社で製造している製品






本 社
(新横浜
ビジネスセンター)




宮城工場
DENSO
デンソー工業株式会社
宮城工場
ISO 9001:2008 ISO 14001:2004
http://www.denso-k.co.jp


東莞電創電子
（中国）
ISO9001-2000
SONYグリーンパートナー　取得工場


電創工業
(香港)


電創電子
（上海）
DENSO

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TÜV SÜD

Management Servic

CERTIFICATE

The Certification Body
of TÜV SÜD Asia Pacific TÜV SÜD Group

certifies that

Dongguan Denso Electronics Co., Ltd.

Nancheng Industry Area, Daojiao Town,
Dongguan City, Guangdong Province, P. R. China
Post Code: 523172

has established and applies
an Environmental Management System for

Manufacturing and Sales of Electronics Connection Parts

An audit was performed, Report No.**20041207**
Proof has been furnished that the requirements
according to

ISO 14001:2004

are fulfilled. The certificate is valid until **2013-08-26**
Certificate Registration No. **TUV104 09 1128**

2011-11-11

Kim, Du M

Certification Body
of TÜV SÜD Asia Pacific
TÜV SÜD Group

JAS-ANZ

IAF

Accreditation by the Joint Accreditation System of Australia and New Zealand, URL www.jas-anz.org/register

TÜV SÜD
Management Service

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

DENSO

Denso Industry Co. Ltd.
Shin Yokohama Business Center
2-12-9 Shin Yokohama, Kouhoku-ku,
Yokohama-shi, Kanagawa-ken 222-0033, Japan

has established and applies
an Environmental Management System for

Sales and Quality Assurance of Electric Wire Harness

An audit was performed, Report No. **70026680**
Proof has been furnished that the requirements
according to

ISO 14001:2004

are fulfilled. The certificate is valid until **2014-04-03**.
Certificate Registration No. **12 104 16476 TMS**

Munich, 2011-06-16

EMS-TGA-ZM-07-92

PERRY JOHNSON REGISTRARS, INC.

登録証

ペリージョンソン レジストラーは、
下記の組織の環境マネジメントシステムを審査しました。

デンソー工業株式会社

宮城工場　宮城県栗原市一迫柳目字天王下56

ここに本組織が

ISO 14001:2004

に適合していることを証します。

また、本登録の範囲は、以下のとおりとします。

ワイヤーハーネス加工製品の製造

審査登録機関ペリージョンソン レジストラーは、上記の製品、プロセスまたはサービスを提供している上記住所に所在する組織の上記登録範囲に対し、登録をここに授与する。本登録は、上記規格の審査登録を管理するシステム規定に従い授与され、組織は、その規定を遵守、適合し、審査登録機関の任務を尊重することをここに誓約する。

ペリージョンソン レジストラー

Perry Boboige

代表取締役社長 ペリー・ボボイジ

Perry Johnson Registrars, Inc. (PJR)
755 West Big Beaver Road, Suite 1340
Troy, Michigan 48084
(248) 358-3388

MS JAB CM025

UKAS MANAGEMENT SYSTEMS

ANAB ACCREDITED

PERRY JOHNSON REGISTRARS, INC.

本登録証の効力は、定期的なサーベイランス審査実施を条件とする。

発効日	有効期限	登録証番号
2011年7月19日	2014年7月18日	C2011-01389

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CERTIFICATE TÜV NORD

Management system as per
ISO 14001 : 2004

In accordance with TÜV NORD CERT procedures, it is hereby certified that

DENSO ELECTRONICS (SHANGHAI) CO., LTD.

Block 1, No.4585, Baoqian Road, Jiading District, 201806 / Shanghai, P. R. China

applies a management system in line with the above standard for the following scope

Manufacture of Electronic Connecting Wires

Certificate Registration No. 44 104 085165
Audit Report No. 2.5-5352/2011

Valid until 2014-01-05
Initial Certification 2005-01-06

Certification Body
at TÜV NORD CERT GmbH

TUV ASIA PACIFIC LIMITED
Unit 01-03 26/F Tower 1,
Millennium City 1,
388 Kwun Tong Road, Kwun Tong,
Kowloon, Hong Kong
2011-03-23

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH   Langemarckstrasse 20   45141 Essen   www.tuev-nord-cert.com

TGA-ZM-07-06-60

SHG, FE5352, RC 0190-B

Board of Directors' Meeting Minutes

THE BOARD OF DIRECTORS' RESOLUTIONS

The Board of Director's Meeting of Denso Industry Asia Co., Ltd. held on 23rd January, 2014 at 10:00a.m. at Flat 10, 15/F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T., the registered office of the Company.

Mr. Fuse Kazubumi took the Chair and the following resolutions were passed:

1. That a new company is to be formed under the name of Denso Industry Yangon Limited subject to permission by the relevant authorities in the Republic of the Union of Myanmar.

2. That Mr. Mishima Takashi, holder of Japanese Passport No. TZ0468392, be authorized to represent the Company in the formation of the new company.

3. That, upon formation of the new company, Mr. Fuse Kazubumi, holder of Japanese Passport No. TH4441171, and Mr. Mishima Takashi, holder of Japanese Passport No. TZ0468392 shall be appointed as Directors of the new company; and Mr. Mishima Takashi is to be appointed as Representative Director and Managing Director of the company, in accordance with the Myanmar Companies Act.

True extract from the Minutes Book

For and on behalf of
Denso Industry Asia Co., Limited

Signature 布施和文 *Authorised Signature(s)*
Name Mr. Fuse Kazubumi
Position Representative Director
Date January 23, 2014

NOTARIAL CERTIFICATE

TO ALL TO WHOM THESE PRESENTS SHALL COME:

I, KOO HOI YAN DONALD, Notary Public, duly admitted, authorised and sworn, practicing in Hong Kong Special Administrative Region DO HEREBY CERTIFY that the attached copy document is the true extract of the Board of Directors' Resolutions dated 23rd day of January 2014 which is signed by Mr. Fuse Kazubumi and kept from the Minutes Book of DENSO INDUSTRY ASIA CO., LIMITED.

IN TESTIMONY, whereof I have hereunto subscribed my name and affixed my Seal of Office this 28th day of January Two Thousand and Fourteen.

KOO HOI YAN, DONALD
NOTARY PUBLIC
HONG KONG SAR
ONC Lawyers
15/F, The Bank of East Asia Building,
10 Des Voeux Road Central, HK

The attesting Notary assumes no responsibility for the contents of the annexed documents.

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... only certifies the signature, the capacity of the signatory and the seal or stamp it bears. It does not certify the content of the document for which it is issued.

APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Country: Hong Kong, China
This public document
2. has been signed by Koo Hoi Yan Donald
3. acting in the capacity of Notary Public
4. bears the seal/stamp of Koo Hoi Yan Donald

Certified

5. at High Court 6. the 29 JAN 2014
7. by LUNG Kim Wan
Registrar, High Court
8. No 2106 / 2014
9. Seal/stamp 10. Signature:

高等法院印章 中華人民共和國香港特別行政區 HONG KONG THE SEAL OF THE HIGH COURT

KOO HOI YAN, DONALD
NOTARY PUBLIC
HONG KONG

No. 074/2014

Seen at the Consulate-General of the Union of Myanmar, Hong Kong for legalization of the signature of LUNG Kim Wan and the official seal of the High Court, Hong Kong.

for Consul-General

WINT MON HTUN
CONSUL

Dated: 4.2.2014
Hong Kong

CONSULATE-GENERAL OF THE REPUBLIC OF THE UNION OF MYANMAR 015 HONG KONG

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Incorporation Certificate of Denso Industry Co., Ltd., Japan

Location Map of Manufacturing Business

EMBASSY OF THE REPUBLIC OF THE UNION OF MYANMAR
4-8-26, Kita-Shinagawa, Shinagawa-Ku, Tokyo, 140-0001
Tel. (03)3441-9291, Fax. (03)3447-7394

No. 230/ 48 01 02

This is to certify that the signature of Ms. Ayako OGAWA, official of the Ministry of Foreign Affairs, affixed to accompanying "NOTARIAL CERTIFICATE", under the Tokyo Legal Affairs Bureau, Registration No. 132121 dated 6th March 2014 is genuine.

The Embassy assumes no responsibility for contents of the documents.

EMBASSY OF THE REPUBLIC OF THE UNION OF MYANMAR
TOKYO

For Ambassador,
(Ei Zin Oo, First Secretary)

Dated: 7th March 2014

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SHIBUYA NOTARY OFFICE

TELEPHONE : +81-3-3464-1717
FACSIMILE : +81-3-3464-2799
E-MAIL : shibuya@koshonin.gr.jp

NIHON-SEIMEI SHIBUYA BLDG.,
1-21-1 JINNAN, SHIBUYA-KU,
TOKYO 150-0041, JAPAN

Registered No. 161

NOTARIAL CERTIFICATE

This is to certify that

MINORI NISHIYAMA

an agent of

TAKAFUMI SUZUKIRI

GYOSEISHOSHI-LAWYER, No.08081771

has stated in my very presence that the latter acknowledged himself to have affixed his signature to the attached document.

Dated this 6th day of March, 2014

Takeo Koiso

TAKEO KOISO
NOTARY
SHIBUYA NOTARY OFFICE

TOKYO LEGAL AFFAIRS BUREAU
NOTARY
1-21-1, JINNAN, SHIBUYA-KU
TOKYO, JAPAN

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平成２６年登簿第　161　号

認　証

嘱託人 行政書士鈴切貴史 の代理人 西山三乃梨 は、本公証人の面前で本人が別添証書に署名したことを自認する旨陳述した。

よって、これを認証する。

平成２６年　３　月　６　日、本公証人役場において

東京都渋谷区神南１丁目２１番１号

東京法務局所属

公証人 小磯武男

Notary TAKEO KOISO

総公証 №132121 号

証　明

上記署名は、東京法務局所属公証人の署名に相違ないものであり、かつ、その押印は、真実のものであることを証明する。

平成２６年　３月　６　日

東京法務局長　石田一宏

CERTIFICATE

This is to certify that the signature affixed above has been provided by Notary, duly authorized by the Tokyo Legal Affairs Bureau and that the Official Seal appearing on the same is genuine.

Date　March 6, 2014

Kazuhiro ISHIDA

Director of the Tokyo Legal Affairs Bureau

For legalization by the foreign consul in Japan, this is to certify that the Seal affixed hereto is genuine.

Date　March 6, 2014

A. Ogawa

Tokyo, Ayako OGAWA

Official

Ministry of Foreign Affairs

(Consular Service Division)

Certificate of All Current Registered Matters

2-12-9, Shin-yokohama, Kohoku-ku, Yokohama City
Denso Industry Co., Ltd.
Company, legal entity, etc. number: 0200-01-086081

Trade Name:	Denso Industry Co., Ltd.		
Head Office:	2-12-9, Shin-yokohama, Kohoku-ku, Yokohama City		
Method of Public Notice:	All public notices of the Company shall be inserted in the Official Gazette.		
Date of Incorporation:	October 2, 2006		
Purposes:	1. Manufacturing and sales of electric cables for electronic/electrical machinery and equipment 2. Manufacturing and sales of electronic/electrical machinery and equipment 3. Planning, production and sales of software 4. Specified Worker Dispatching Undertakings 5. All businesses incidental to or relating to the aforementioned items		
Total Number of Shares Authorized to be Issued:	10,000,000 Shares		
Total Number of Issued Shares and the Type and Number of Shares:	Total Number of the Issued Shares: 33,472 Shares		
Amount of Capital:	50,000,000 yen		
Provision Concerning Restrictions on Share Transfers:	Acquisition of the Company's shares by transfer shall require the approval of the Board of Directors.		
Matters Concerning Officers:	Director	Shigeru ASO	Reappointed: May 22, 2012 Registered: June 13, 2012
	Director	Fumiko ASO	Reappointed: May 22, 2012 Registered: June 13, 2012
	Director	Noriaki ITO	Reappointed: May 22, 2012 Registered: June 13, 2012
	Director	Tomohiko ASO	Reappointed: May 22, 2012 Registered: June 13, 2012
	Director	Toshiaki SUZUKI	Reappointed: May 22, 2012 Registered: June 13, 2012

12-9, Shin-yokohama, Kohoku-ku, Yokohama City
:nso Industry Co., Ltd.
›mpany, legal entity, etc. number: 0200-01-086081

	Director Toshihiko YAMASHITA	Appointed: May 22, 2012 Registered: June 13, 2012
	Director Yoshiaki ASO	Appointed: May 22, 2012 Registered: June 13, 2012
	Director Kazubumi Fuse	Appointed: May 24, 2013 Registered: June 18, 2013
	4-7, Denenchofu-minami, Ota-ku, Tokyo Representative Director Shigeru ASO	Reappointed: May 22, 2012 Registered: June 13, 2012
	4-7, Denenchofu-minami, Ota-ku, Tokyo Representative Director Tomohiko ASO	Appointed: May 22, 2012 Registered: June 13, 2012
	Corporate Auditor Hiroshi OYAMA	Appointed: May 27, 2010
;ranch	3 4936, Kurokawashin, Imizu City, Toyama	
	4 56, Aza-tennoshita, Ichihazama-yanaginome, Kurihara City, Miyagi	
/latters Concerning :ompany with a Board of)irectors:	Company with a Board of Directors	
/latters Concerning :ompany with a Corporate Auditor:	Company with a Corporate Auditor	

This is a document certifying that these are all of the matters recorded on the register that are now in effect.
(Under jurisdiction of Yokohama District Legal Affairs Bureau)

March 5, 2014

Tokyo Legal Affairs Bureau, Shibuya Branch Office

Registrar Kazuhiro ISHIKAWA (SEAL)

現在事項全部証明書

横浜市港北区新横浜二丁目１２番９号
デンソー工業株式会社
会社法人等番号　０２００－０１－０８６０８１

商　号	デンソー工業株式会社	
本　店	横浜市港北区新横浜二丁目１２番９号	
公告をする方法	官報に掲載する方法により行う	
会社成立の年月日	平成１８年１０月２日	
目　的	１．電子・電気機械器具用電線製造、販売 ２．電子・電気機械器具の製造、販売 ３．ソフトウェアーの企画、製作、販売 ４．特定労働者派遣事業 ５．前各号に付帯または関連する一切の業務	
発行可能株式総数	１０００万株	
発行済株式の総数並びに種類及び数	発行済株式の総数 ３万３４７２株	
資本金の額	金５０００万円	
株式の譲渡制限に関する規定	当会社の株式を譲渡により取得するには、取締役会の承認を得なければならない。	
役員に関する事項	取締役　麻　生　繁	平成２４年　５月２２日重任 平成２４年　６月１３日登記
	取締役　麻　生　文　子	平成２４年　５月２２日重任 平成２４年　６月１３日登記
	取締役　伊　東　範　昭	平成２４年　５月２２日重任 平成２４年　６月１３日登記
	取締役　麻　生　智　彦	平成２４年　５月２２日重任 平成２４年　６月１３日登記
	取締役　鈴　木　利　明	平成２４年　５月２２日重任 平成２４年　６月１３日登記

横浜市港北区新横浜二丁目12番9号
デンソー工業株式会社
会社法人等番号　0200－01－086081

	取締役　山下敏彦	平成２４年　５月２２日就任 平成２４年　６月１３日登記
	取締役　麻生吉昭	平成２４年　５月２２日就任 平成２４年　６月１３日登記
	取締役　布施和文	平成２５年　５月２４日就任 平成２５年　６月１８日登記
	東京都大田区田園調布南４番７号 代表取締役　麻生繁	平成２４年　５月２２日重任 平成２４年　６月１３日登記
	東京都大田区田園調布南４番７号 代表取締役　麻生智彦	平成２４年　５月２２日就任 平成２４年　６月１３日登記
	監査役　小山洋	平成２２年　５月２７日就任
支　店	3 富山県射水市黒河新４９３６番地	
	4 宮城県栗原市一迫柳の目字天王下５６	
取締役会設置会社に関する事項	取締役会設置会社	
監査役設置会社に関する事項	監査役設置会社	

これは登記簿に記録されている現に効力を有する事項の全部であることを証明した書面である。
（横浜地方法務局管轄）
平成２６年　３月　５日
東京法務局渋谷出張所
登記官　　石　川　和　博

Incorporation Certificate of Denso Industry Asia Co., Ltd., Hongkong

April 24, 2014

Subject: : Letter of Declaration

To whom it may concern.

This is to confirm that Denso Industry Asia Co., Ltd established in Hongkong is 100% subsidiary company of Denso Industry Co. Ltd. formed in Japan.

Attached is a document to prove the registration of the subsidiary company dated 9 October 2013 issued by Companies Registry of Hong Kong.

Yours truly,

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

NOTARIAL CERTIFICATE

TO ALL TO WHOM THESE PRESENTS SHALL COME:

I, KOO HOI YAN DONALD, Notary Public, duly admitted, authorised and sworn, practicing in Hong Kong Special Administrative Region DO HEREBY CERTIFY that the attached copy documents are the respective true copies of :-

(a) Business Registration Certificate of DENSO INDUSTRY ASIA CO., LIMITED ("the Company") dated this 9th day of October 2013 (No.62154019-000-10-13-3); and

(b) Certificate of Incorporation of the Company dated this 9th day of October 2013 (No. 1978374);

(c) Memorandum and Articles of Association of the Company dated this 30th day of September 2013; and

the original of (a) and the filed copies of (b) and (c) from the Companies Registry of Hong Kong above have on this 28th day of January 2014 been received and examined by me.

IN TESTIMONY, whereof I have hereunto subscribed my name and affixed my Seal of Office this 28th day of January Two Thousand and Fourteen.

KOO HOI YAN, DONALD
NOTARY PUBLIC
HONG KONG SAR
ONC Lawyers
15/F, The Bank of East Asia Building,
10 Des Voeux Road Central, HK

The attesting Notary assumes no responsibility for the contents of the annexed documents.

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This apostille only certifies the signature, the capacity of the signatory and the seal or stamp it bears. It does not certify the content of the document for which it is issued.

APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Country: Hong Kong, China

This public document

2. has been signed by Koo Hoi Yan Donald
3. acting in the capacity of Notary Public
4. bears the seal/stamp of Koo Hoi Yan Donald

Certified

5. at High Court 6. the 29 JAN 2014
7. by LUNG Kim Wan
Registrar, High Court
8. No 2104 / 2014
9. Seal/stamp 10. Signature:

高等法院印章 THE SEAL OF THE HIGH COURT HONG KONG

No. 075/2014

Seen at the Consulate-General of the Union of Myanmar, Hong Kong for legalization of the signature of LUNG Kim Wan and the official seal of the High Court, Hong Kong.

for Consul-General

WINT MON HTUN
CONSUL

Dated: 4.2.2014
Hong Kong

CONSULATE-GENERAL OF THE REPUBLIC OF THE UNION OF MYANMAR HONG KONG 015

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不並將有效的商業/分行登記證展示在營業地點
along the dotted line and display the valid business/branch registration certificate at business address.

本
ORIGINAL

表格 2 FORM 2
《商業登記條例》(第 310 章)
BUSINESS REGISTRATION ORDINANCE (Chapter 310)
《商業登記規例》
BUSINESS REGISTRATION REGULATIONS
商業/分行登記證 Business/Branch Registration Certificate

[第 5 條]
[regulation 5]

XXXXXXXX

業務 / 法團所用名稱 Name of Business/ Corporation	DENSO INDUSTRY ASIA CO., LIMITED
業務 / 分行名稱 Business/ Branch Name	** **
地址 Address	FLAT/RM 10 15/F SHATIN GALLERIA 18-24 SHAN MEI STREET FOTAN SHATIN NT
業務性質 Nature of Business	GENERAL TRADING
法律地位 Status	BODY CORPORATE

生效日期 Date of Commencement	屆滿日期 Date of Expiry	登記證號碼 Certificate No.	登記費及徵費 Fee and Levy (APP)
09/10/2013	08/10/2014	62154019-000-10-13-3	$250

(登記費 FEE = $ 0)
(徵費 LEVY = $250)

請注意下列《商業登記條例》的規定：

1. 第 6(6) 條規定任何業務獲發商業登記證或分行登記證，並不表示該業務或經營該業務的人或受僱於該業務的僱員已遵從有關的任何法律規定。
2. 第 12 條規定各業務須將其有效的商業登記證或有效的分行登記證於每一營業地點展示。

Please note the following requirements of the Business Registration Ordinance:

1. Section 6(6) provides that the issue of a business registration certificate or a branch registration certificate shall not be deemed to imply that the requirements of any law in relation to such business or to the persons carrying on the same or employed therein have been complied with.
2. Section 12 provides that valid business registration certificate or valid branch registration certificate shall be displayed at every address where business is carried on.

茲收到本證所示登記費及徵費收訖。 RECEIVED FEE AND LEVY HERE STATED IN PRINTED FIGURES.

IRDB101A (12/2010) 30/09/2013 232446431 $250.00

No. 1978374

公司註冊處
COMPANIES REGISTRY

CERTIFICATE OF INCORPORATION
公司註冊證書

* * *

I hereby certify that
本人謹此證明

Denso Industry Asia Co., Limited

is this day incorporated in Hong Kong under the Companies Ordinance
於本日根據《公司條例》(香港法例第32章)

(Chapter 32 of the Laws of Hong Kong) and that this company is limited.
在香港註冊成為有限公司。

Issued on 9 October 2013.
本證書於二〇一三年十月九日發出。

Ms Ada L L CHUNG
Registrar of Companies
Hong Kong Special Administrative Region
香港特別行政區公司註冊處處長鍾麗玲

Note 註:
Registration of a company name with the Companies Registry does not confer any trade mark rights or any other intellectual property rights in respect of the company name or any part thereof.
公司名稱獲公司註冊處註冊,並不表示獲授予該公司名稱或其任何部分的商標權或任何其他知識產權。

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MEMORANDUM

AND

ARTICLES OF ASSOCIATION

OF

Denso Industry Asia Co., Limited

Incorporated the day of

No.

[COPY]

COMPANIES REGISTRY

CERTIFICATE OF INCORPORATION

I hereby certify that

Denso Industry Asia Co., Limited

is this day incorporated in Hong Kong under the Companies Ordinance (Chapter 32 of the Laws of Hong Kong) and that this company is limited.

Issued on

Registrar of Companies
Hong Kong Special Administrative Region

Note :
Registration of a company name with the Companies Registry does not confer any trade mark rights or any other intellectual property rights in respect of the company name or any part thereof.

THE COMPANIES ORDINANCE (CHAPTER 32)

Private Company Limited by Shares

MEMORANDUM OF ASSOCIATION

OF

Denso Industry Asia Co., Limited

First:- The name of the Company is "Denso Industry Asia Co., Limited".

Second:- The Registered Office of the Company will be situated in Hong Kong.

Third: - The liability of the Members is limited.

Fourth:- The Share Capital of the Company is HK$500,000.00 divided into 500,000 shares of HK$1.00 each with the power for the company to increase or reduce the said capital and to issue any part of its capital, original or increased, with or without preference, priority or special privileges, or subject to any postponement of rights or to any conditions or restrictions and so that, unless the conditions of issue shall otherwise expressly declare, every issue of shares, whether declared to be preference or otherwise, shall be subject to the power hereinbefore contained.

****

I/We, the undersigned, whose name(s), address(es) and description(s) is/are hereto given below, wish to form a Company in pursuance of this Memorandum of Association, and I/we respectively agree to take the number of share(s) in the capital of the Company set opposite to my/our respective name(s):-

Name(s), Address(es) and Description(s) of Signatory/Signatories	Number of Share(s) taken by each signatory
For and on behalf of Denso Industry Co., Ltd. .... Authorized Signature(s) Denso Industry Co., Ltd. 2-12-9 Shin-yokohama, Kohoku-ku, Yokohama City, Kanagawa Pref, Japan Corporation	-500,000-
Total Number of Share(s) Taken	-500,000-

Dated the 30 SEP 2013
WITNESS to the above signature(s):

0019 0010119

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THE COMPANIES ORDINANCE (CHAPTER 32)

Private Company Limited by Shares

ARTICLES OF ASSOCIATION

OF

Denso Industry Asia Co., Limited

Preliminary

1. The regulations contained in Table "A" in the First Schedule to the Companies Ordinance (Chapter 32) shall apply to the Company save in so far as they are hereby expressly excluded or modified. In case of conflict or inconsistency between the provisions of Table "A" and those present herein, the provisions herein contained shall prevail.

2. The company is a private company and accordingly :-

   (a) the right to transfer shares is restricted in manner hereinafter prescribed;

   (b) the number of members of the company (exclusive of persons who are in the employment of the company and of persons who having been formerly in the employment of the company were while in such employment and have continued after the determination of such employment to be members of the company) is limited to fifty. Provided that where two or more persons hold one or more shares in the company jointly they shall for the purpose of this Article be treated as a single member;

   (c) any invitation to the public to subscribe for any shares or debentures of the company is prohibited.

Transfer of Shares

3. The Directors may in their absolute discretion decline to register any transfer of shares to any person without giving any reason therefor. The Directors may suspend the registration of transfers during the twenty-one days immediately preceding the Annual General Meeting in each year. The Directors may decline to register any instrument of transfer, unless (a) a fee not exceeding five dollars is paid to the Company in respect thereof, and (b) the instrument of transfer is accompanied by the Certificate of the shares to which it relates, and such other evidence as the Directors may reasonably require to show the right of the transferor to make the transfer. If the Directors refuse to register a transfer, they shall within two months after the date on which the transfer was lodged with the Company, send to the transferee notice of the refusal as required by Section 69 of the Companies Ordinance.

Chairman of Directors

4. The Directors may elect a chairman of their meetings, and determine the period for which he is to hold office, and unless otherwise determined the chairman shall be elected annually. If no chairman is elected, or if at any meeting the chairman is not present within half an hour of the time appointed for holding the same, the Directors present shall choose someone of their number to be the chairman of such meeting.

Directors

5. Unless and until otherwise determined by an Ordinary Resolution of the Company, the minimum number of Directors shall be one and there shall be no maximum number of Directors. The first Directors of the Company shall be nominated in writing by the Founder Members.

6. (a) If the Company has only one member and that member is also the sole Director, the Company may in General Meeting, notwithstanding anything in these Articles, nominate a person (other than a body corporate) who has attained the age of 18 years as a Reserve Director of the Company to act in the place of the sole Director in the event of his death. Any duly authorised officer of the Company is empowered to send the particulars of the nomination of the Reserve Director to the Registrar of Companies, pursuant to Section 158 of the Companies Ordinance.

   (b) A Director who is about to go away from or is absent from Hong Kong may with the approval of the majority of the other Directors nominate any person to be his substitute and such substitute whilst he holds office as such shall be entitled to notice of meetings of the Directors and to attend and vote thereat accordingly and he shall ipso facto vacate office if and when the appointor returns to Hong Kong or vacate office as a Director or removes the substitute from office and any appointment and removal under this Article shall be effected by notice in writing under the hand of or by cable from the Director making the same. A Director may appoint (subject as above provided) one of the other Directors to be his substitute who shall thereupon be entitled to exercise (in addition to his own right of voting as a Director) such appointor's rights at meetings of the Directors.

7. At the Annual General Meeting to be held next after the adoption of these Articles and at every succeeding Annual General Meeting all Directors, except Permanent Directors if any are appointed, shall retire from office and shall be eligible for re-election.

8. A Director need not hold any shares of the Company.

9. The office of a Director shall be vacated if the Director: -

   (a) resigns his office by notice in writing to the Company; or

   (b) becomes bankrupt or makes any arrangement or composition with his creditors generally; or

   (c) becomes of unsound mind.

10. (a) No Director shall be disqualified from his office by contracting with the Company, nor shall any such contract or any contract entered into by or on behalf of the Company in which any Director shall be in any way interested be avoided, nor shall any Director so contracting or being so interested be liable to account to the Company for any profit realised by any such contract by reason only of such Director holding that office, or of the fiduciary relations thereby established but it is declared that the nature of his interest must be disclosed by him at the meeting of the Directors at which the contract is determined on if his interest then exists, or, in any other case, at the first meeting of the Directors after the acquisition of his interest. A Director may vote in respect of any contract or arrangement in which he is interested.

    (b) A Director of the Company may be or become a Director of any company promoted by this Company or in which it may be interested as a vendor, shareholder or otherwise and no such Director shall be accountable for any benefits received as a Director or shareholder of such company.

11. (a) The Directors may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit and determine the quorum necessary for the transaction of business.

    (b) Until otherwise determined, two Directors shall constitute a quorum.

(c) If the Company shall have only one Director, that Director may at any time summon a meeting of the Directors, the provisions hereinafter contained for meetings of the Directors shall not apply but such sole Director shall have full power to represent and act for the Company in all matters and in lieu of minutes of a meeting shall record in writing and sign a note or memorandum of all matters requiring a resolution of the Directors. Such note or memorandum shall constitute sufficient evidence of such resolution for all purposes.

12. Any casual vacancy occurring in the Board of Directors may be filled up by the Directors, but the person so chosen shall be subject to retirement at the same time as if he had become a Director on the day on which the Director in whose place he is appointed was last elected a Director.

13. Subject to the provisions of Article 6 hereof, the Directors shall have power at any time, and from time to time, to appoint a person as an additional Director who shall retire from office at the next following Annual General Meeting, but shall be eligible for election by the Company at that meeting as an additional Director.

14. The Company may by an ordinary resolution remove any Director and may by an ordinary resolution appoint another person in his stead. The person so appointed shall be subject to retirement at the same time as if he had become a Director on the day on which the Director in whose place he is appointed was last elected a Director.

15. Any Resolution of the Board of Directors in writing signed by the majority of the Directors, in whatever part of the world they may be, shall be valid and binding as a resolution of the Directors provided that notice shall have been given to all the Directors of the Company capable of being communicated with conveniently according to the last notification of address by each such Director given to the Registered Office of the Company.

16. Where any notice is required either by these Articles, by Table "A", by the Ordinance or otherwise, to be given to any Director or to any Member of the Company and where any consent, agreement, signature, notice by or authority from any Director or Member of the Company shall be valid if given by cable or by mail. This clause shall not apply to Special Resolutions.

Powers of Directors

17. The Directors, in addition to the powers and authorities by these Articles or otherwise expressly conferred upon them, may exercise all such powers and do all such acts and things as may be exercised or done by the Company in General Meeting subject nevertheless to the provisions of the Companies Ordinance (Chapter 32), to these Articles, and to any regulations from time to time made by the Company in General Meetings, provided that no such regulation so made shall invalidate any prior act of the Directors which would have been valid if such regulations had not been made.

18. Without prejudice to the general powers conferred by the preceding Article and the other powers conferred by these Articles, it is hereby expressly declared that the Directors shall have the following powers, that is to say, power: -

(a) To pay the costs, charges and expenses preliminary and incidental to the promotion, formation, establishment and registration of the Company.

(b) To purchase or otherwise acquire for the Company or sell or otherwise dispose of any property, rights or privileges which the Company is authorised to acquire at such price and generally on such terms and conditions as they shall think fit.

(c) To engage, suspend or dismiss the employees of the Company, and to fix and vary their salaries or emoluments.

(d) To institute, conduct, defend, compromise or abandon any legal proceedings by or against the Company or its officers, or otherwise concerning the affairs of the Company, and also to compound and allow time for payment or satisfaction of any debts due and of any claims or demands by or against the Company.

(e) To refer any claims or demands by oragainst the Company to arbitration and observe and perform the awards.

(f) To make and give receipts, releases and other discharges for moneys payable to the Company, and for claims and demands of the Company.

(g) To invest, lend or otherwise deal with any of the moneys or property of the Company in such manner as they think fit having regard to the Company's Memorandum of Association and from time to time to vary or realise any such investment.

(h) To borrow money on behalf of the Company, and to pledge, mortgage or hypothecate any of the property of the Company.

(i) To open a current account with themselves for the Company and to advance any money to the Company with or without interest and upon such terms and conditions as they shall think fit.

(j) To enter into all such negotiations and contracts and rescind and vary all such contracts and execute and do all such acts, deeds and things in the name and on behalf of the Company as they may consider expedient for, or in relation to, any of the matters aforesaid, or otherwise for the purposes of the Company.

(k) To give to any Director, officer or other person employed by the Company a commission on the profits of any particular business or transaction, and such commission shall be treated as part of the working expenses of the Company, and to pay commissions and make allowances (either by way of a share in the general profits of the Company or otherwise) to any person introducing business to the Company or otherwise promoting or serving the interest thereof.

(l) To sell, improve, manage, exchange, lease, let, mortgage or turn to account all or any part of the land, property, rights and privileges of the Company.

(m) To employ, invest or otherwise deal with any Reserve Fund or Reserve Funds in such manner and for such purposes as the Directors may think fit.

(n) To execute, in the name and on behalf of the Company, in favour of any Director or other person who may incur or be about to incur any personal liability for the benefit of the Company, such mortgages of the Company's property (present or future) as they think fit, and any such mortgage may contain a power of sale and such other powers, covenants and provision as shall be agreed upon.

(o) From time to time to provide for the management of the affairs of the Company abroad in such manner as they think fit, and in particular to appoint any persons to be the attorneys or agents of the Company with such powers (including power to sub-delegate) and upon such terms as they think fit.

(p) From time to time to make, vary or repeal rules and by-laws for the regulation of the business of the Company, its officers and servants.

(q) To delegate any or all of the powers herein to any Director or other person or persons as the Directors may at any time think fit.

19. Clause 81 of Table "A" shall not apply.

Seal and Cheques

20. The Seal of the Company shall be kept by the Board of Directors and shall not be used except with their authority.

21. Every document required to be sealed with the Seal of the Company shall be deemed to be properly executed if sealed with the Seal of the Company and signed by the Chairman of the Board of Directors, or such person or persons as the Board may from time to time authorised for such purpose.

22. All cheques, promissory notes, drafts, bills of exchange, and other negotiable instruments, shall be made, signed, drawn, accepted and endorsed, or otherwise executed by the person or persons from time to time authorised by a resolution of the Board of Directors.

General Meetings

23. For all purposes, the quorum for all general meetings shall be two members personally present and holding either in his own right or by proxy at least one-tenth of the paid-up capital of the Company. Notwithstanding any provision herein, one member shall constitute a quorum for a meeting of a company having only one member. No business shall be transacted at any General Meeting unless the requisite quorum be present at the commencement of the business.

24. A resolution in writing signed by all the members or the sole member shall be as valid and effectual as a resolution passed at a general meeting duly convened and held.

Votes of Members

25. All voting of members in respect of any matter or matters shall be by poll and every member present in person or by proxy shall have one vote for each share of which he is the holder.

Divisions of Profits

26. The net profits of the Company in each year shall be applied in or towards the formation of such reserve fund or funds and in or towards the payment of such dividends and bonuses as the Directors subject to the approval of the Company in General Meeting may direct.

27. No dividend shall be payable except out of the profits of the Company, and no dividend shall carry interest as against the Company.

28. A transfer of shares shall not pass the right to any dividend declared thereon before the registration of the transfer.

29. If two or more persons are registered as joint holders of any share, any one of such persons may give effectual receipts for any dividends or for other moneys payable in respect of such share.

30. The Directors may retain any dividends payable on shares on which the Company has a lien, and may apply the same in or towards satisfaction of the debts, liabilities or engagements in respect of which the lien exists.

31. All dividends unclaimed for one year after having been declared may be invested or otherwise made use of by the Directors for benefit of the Company until claimed.

Secretary

32. The First Secretary of the Company shall be **ACCPRO SOLUTIONS LIMITED** who may resign from this office upon giving notice to Company of such intention and such resignation shall take effect upon the expiration of such notice or its earlier acceptance. Where the Company has only one Director, that Director shall not also be the Secretary of the Company.

Notice

33. Any notice required to be given to the shareholders under these Articles may be in Chinese or English or both.

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Name(s), Address(es) and Description(s) of Signatory/Signatories
For and on behalf of Denso Industry Co., Ltd. 森生 智彦 Authorized Signature(s) Denso Industry Co., Ltd. 2-12-9 Shin-yokohama, Kohoku-ku, Yokohama City, Kanagawa Pref, Japan Corporation

Dated the 30 SEP 2013
WITNESS to the above signature(s):

0025 0023

Audited Financial Statements of Denso Industry Co., Ltd., Japan (FY 2011, 2012 & 2013)

EMBASSY OF THE REPUBLIC OF THE UNION OF MYANMAR
4-8-26, Kita-Shinagawa, Shinagawa-Ku, Tokyo, 140-0001
Tel. (03)3441-9291, Fax. (03)3447-7394

No. 220/ 48 01 02

This is to certify that the signature of Ms. Ayako OGAWA, official of the Ministry of Foreign Affairs, affixed to accompanying "NOTARIAL CERTIFICATE", under the Yokohama District Legal Affairs Bureau, Registration No. 400246 dated 4th March 2014 is genuine.

The Embassy assumes no responsibility for contents of the documents.

EMBASSY OF THE REPUBLIC OF THE UNION OF MYANMAR
013
TOKYO

For Ambassador,
(Ei Zin Oo, First Secretary)

Dated: 5th March 2014

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DECLARATION

I, Tomohiko Aso, do hereby solemnly and sincerely declare that the attached document, translation of Financial Statements of 3 fiscal years, as of March 31 2011, 2012, and 2013 is a true and correct translation into the English Language.

And I make this solemn declaration conscientiously believing the same to be true and correct.

YOKOHAMA
DISTRICT LEGAL AFFAIRS BUREAU
NOTARY
1-5-10 Kitasaiwai Nishi-ku
YOKOHAMA, JAPAN

Date: March 4, 2014

Signature

麻生 智広

Representative Director of

Denso Industry Co., Ltd.

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Financial statements

(5th)

From 1 April 2010
To 31 March 2011

Denso Industry Co., Ltd.

2-12-9 Shin-yokohama, Kohoku-ku, Yokohama City, Japan.

Balance Sheet

As at 31 March 2011

Denso Industry Co., Ltd. (Unit : Yen)

Section of Asset

【Current Assets】		
Cash, Deposit	317,692,027	
Trade Receivable	50,017,976	
Accounts Receivable	176,466,818	
Factory receivable	264,882,896	
Goods	35,664,588	
Finished Goods	17,729,384	
Raw Materials	89,219,578	
Work in Progress	37,955,938	
Advance Payment	355,000	
Temporary Payment	4,257,039	
Accrued Revenue	32,872,614	
Allowance for doubtful accounts	△ 5,460,000	
Total Current Assets		1,021,653,858
【Fixed Assets】		
【Tangible Fixed Assets】		
Building	50,218,733	
Leasehold	1,989,096	
Construction	1,296,090	
Machinery & Equipment	14,433,224	
Vehicle	2,633,794	
Tools, Furniture & Fixture	15,535,220	
Minor Assets	2,442,323	
Land	29,500,000	
Total Tangible Fixed Assets	118,048,480	
【Intangible Fixed Asset】		
Software	3,398,849	
Telephone Subscription Right	2,355,828	
Total Intangible Fixed Assets	5,754,677	
【Investemnt and Other Assets】		
Investment	20,000	
Deposit	1,655,880	
Premium Deposit	37,539,336	
Other Investment	300,000	
Total Investment and Other Assets	39,515,216	
Total Fixed Assets		163,318,373
Total Assets		1,184,972,231

Section of Liabilities

【Current Liabilities】		
Trade Payable	390,147,225	
Accounts Payable	92,223,894	
Other Accounts Payable	41,606,166	
Income Tax Appropriation	34,876,800	
Deposits Received	11,782,516	
Subcontracting Accounts Payable	11,377,937	
Special Disaster Loss Account	3,541,145	
Total Current Liabilities		585,555,683
【Fixed Liabilities】		
Long Term Loan	126,440,000	
Total Fixed Liabilities		126,440,000
Total Liabilities		711,995,683

Section of Net Assets

[Shareholders Equity]		
[Capital]		50,000,000
[Capital Surplus]		
Capital Reserve	32,628,236	
Other Capital Reserve	16,300,000	
Total Capital Surplus		48,928,236
[Retained Earnings]		
Earnings Reserve	5,000,000	
Other Retained Earnings	369,048,312	
Other Reserve	50,000,000	
Retained Earnings Brought Forward	319,048,312	
Total Retained Earnings		374,048,312
Total Shareholders Equity		472,976,548
Total Net Assets		472,976,548
Total Net Assets & Liabilites		1,184,972,231

Profit and Loss Account

From 1 April 2010
To 31 March 2011

Denso Industry Co., Ltd.

(Unit : Yen)

[Sales]		2,806,337,777
[Cost of Sales]		
Opening Stock	53,098,298	
Purchase	1,049,157,572	
Net Manufacturing Cost	1,165,185,315	
Closing stock	53,393,972	2,214,047,213
Gross Profit		592,290,564
[Selling, General & Administrative Expenses]		
Director Salaries	48,400,000	
Salaries	116,278,386	
Miscellaneous give	287,000	
Bouns	21,458,955	
Redundancy Payments	377,428	
Wage	5,055,102	
Statutory Welfare	23,500,007	
Welfare Benefits Expenses	5,425,555	
Travelling Expenses	12,780,494	
Commuting Expenses	4,267,214	
Communication Fees	5,195,722	
Entertainment Expenses	2,641,536	
Donation	28,500	
Conference Fees	33,143	
Depreciation and Amortization	8,151,501	
Rental Expenses	2,631,800	
Rent	57,762,948	
Insurance Expenses	15,822,018	
Repair Expenses	9,318,048	
Utilities Expenses	4,194,606	
Office Supplies Expenses	5,914,895	
Taxes	3,071,103	
Freight Charges	19,195,243	
Stationery Expenses	988,344	
Advertising Expenses	28,571	
Commission Expenses	2,470,512	
Various Fees	427,874	
Books and Newspaper Expenses	509,154	
Allowance for Doubtful Debts	5,460,000	
Outsourcing Expenses	47,990,888	
Vehicles Fees	2,795,715	
Sundry Expenses	1,514,453	433,976,715
Operating Income		158,313,849
[Non-Operating Income]		
Interest Income	83,954	
Dividend Income	800	
Sundry Income	39,135,268	39,220,022
[Non-Operating Expenses]		
Interest Expenses	3,207,681	
Loss on Sales	3,408,147	
Sundry Loss	1,237,598	7,853,426
Ordinary Income		189,680,445
[Extraordinary Income]		
Reversal of Allowance for Doubtful	4,530,000	
Foreign Exchange Gains	9,156,216	13,686,216
[Extraordinary Loss]		
Loss on Sale of Fixed Assets	95,427	
Loss on Disposal of Fixed Assets	319,054	
Other Extraordinary Losses	4,499,086	
Foreign Exchange Loss	27,945,502	

Impairment Loss - Disaster	3,541,145	36,400,214
Net Income before Tax		166,966,447
Income Taxes		34,876,800
Net Profit		132,089,647

Manufacturing Cost Report

From 1 April 2010
To 31 March 2011

Denso Industry Co., Ltd. (Unit : Yen)

[Raw Material Costs]		
Opening Stock	76,426,905	
Purchase	6,692,515,053	
Closing Stock	89,219,578	
Net Material Costs		656,458,830
[Labor Costs]		
Wages	136,647,211	
Labor Fee	38,767,089	
Miscellaneous Gives	12,800	
Bonus	27,472,455	
Redundancy Payments	9,952,272	
Statutory Welfare	25,614,908	
Commuting Expenses	3,526,708	
Welfare Benfits Expenses	6,173,081	
Net Labor Costs		248,166,524
[Subcontracting Costs]		
Subcontracting Costs	181,921,861	
Net Subcontracting Costs		181,921,861
[Expenses]		
Travelling Expenses	2,479,931	
Communication Fees	1,804,939	
Entertainment Expenses	603,855	
Donation	3,000	
Conference Fees	110,714	
Depreciation and Amortization	9,285,708	
Rental Expenses	4,045,053	
Rent	11,306,292	
Insurance Expenses	1,224,570	
Repair Expenses	2,496,956	
Utilities Expenses	8,090,553	
Office Supplies	13,044,895	
Stationery Expenses	2,033,555	
Consumable Tooling Costs	2,698,251	
Taxes	1,427,080	
Freight Charges	12,599,006	
Vehicle Expenses	1,253,901	
Various Fees	104,300	
Books and Newspaper Expenses	81,552	
Commission Expenses	519,256	
Outsourcing Expenses	3,120,079	
Advertising Expenses	3,000	
Sundry Expenses	813,603	
Net Expenses		79,150,049
Net Manufacturing Expenses		1,165,697,264
Opening Stock of Work in Progress		37,443,989
Closing Stock of Work in Progree		37,955,938
Net Finished Goods Manufacturing Costs		1,165,185,315

Statement of Changes in Net Assets

From 1 April 2010
To 31 March 2011

Denso Industry Co., Ltd. (Unit . Yen)

[Shareholders Equity]		
[Capital]	Opening balance & Closing balance for the year	50,000,000
[Capital Surplus]		
Capital Reserve	Opening balance & Closing balance for the year	32,628,236
Other Capital Reserve	Opening balance & Closing balance for the year	16,300,000
Total Capital Surplus	Opening balance & Closing balance for the year	48,928,236
[Retained Earnings]		
Earnings Reserve	Opening balance & Closing balance for the year	5,000,000
[Other Retained Earnings]		
Other Reserve	Opening balance & Closing balance for the year	50,000,000
Retained Earnings b/f	Opening balance	186,958,665
	Change amount, Net profit for the year	132,089,647
	Closing balance	319,048,312
Total Retained Earnings	Opening balance	241,958,665
	Change amount for the year	132,089,647
	Closing balance	374,048,312
Total Shareholders Equity	Opening balance	340,886,901
	Change amount for the year	132,089,647
	Closing balance	472,976,548
Total Net Assets	Opening balance	340,886,901
	Change amount for the year	132,089,647
	Closing balance	472,976,548

Denso Industry Co., Ltd.

INDIVIDUAL FINANCIAL STATEMENT

From 1 April 2010
To 31 March 2011

The financial statements have the guildines on small business accounting

Important notes on relating to significant accounting policies
Valuation of assets
Valuation of Inventories
To determined the retail price, products and raw materials are used the last purchase cost.

Depreciation of fixed assets
(1)Depreciation of tangiable fixed assets
(2)Depreciation of intangiable fixed assets

Accounting standards of provision
Allowance for doubtful accounts In order to provide for losses on bad debts, a provision for legal markups the provisions of the Corporation Tax Law for general claims

Important items for the creation of financial statements
(1) Lease processing method For leases, it was according to the method of engagement as operating leases.
(2) Accounting for consume tax Accounting for consume tax, depending on Tax report processing.

Notes on Balance Sheet
Amount of the debt, such as debt guarantees

Bills receivable discounted	JPY192,862,223

Amount of accumulated depreciation of fixed assets

Amount of accumulated depreciation of tangiable fixed assets	JPY323,316,035
Amount of accumulated depreciation of intangiable fixed assets	JPY21,891,651

Notes on Statement of Changes in Net Assets

Number of Issued Shares	33,472 stock

Other Notes
The annual Shareholders' meeting was held on 27 May 2011, the above proposal has been approved

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Financial statements

(6th)

From 1 April 2011
To 31 March 2012

Denso Industry Co., Ltd.

2-12-9 Shin-yokohama, Kohoku-ku, Yokohama City, Japan.

Balance Sheet

As at 31 March 2012

Denso Industry Co., Ltd.

(Unit : Yen)

Section of Asset

I Current Assets		
Cash, Deposit	393,526,897	
Trade Receivable	149,106,102	
Accounts Receivable	148,563,456	
Trade Discount	△ 73,099,884	
Factory receivable	122,932,082	
Goods	16,166,168	
Finished Goods	11,391,098	
Work in Progress	27,838,149	
Raw Materials	73,426,045	
Advance Payment	840,000	
Accrued Revenue	24,707,209	
Temporary Payment	37,750	
Prepayment	562,968	
Allowance for doubtful accounts	△ 3,310,000	
Total Current Assets		892,688,040
II Fixed Assets		
1 Tangible Fixed Assets		
Building	47,657,655	
Leasehold	1,533,596	
Construction	1,125,119	
Machinery & Equipment	11,426,012	
Vehicle	1,635,261	
Tools, Furniture & Fixture	10,104,732	
Land	29,500,000	
Minor Assets	1,502,938	
Total Tangible Fixed Assets	104,485,313	
2 Intangible Fixed Asset		
Software	2,350,249	
Telephone Subscription Right	2,355,828	
Total Intangible Fixed Assets	4,706,077	
3 Investemnt and Other Assets		
Investment	20,000	
Guarantee Deposit	1,655,880	
Premium Deposit	40,240,105	
Golf Club Membership	300,000	
Total Investment and Other Assets	42,215,985	
Total Fixed Assets		151,407,375
Total Assets		1,044,095,415

Section of Liabilities

I Current Liabilities		
Trade Payable	241,195,532	
Accounts Payable	65,211,240	
Other Accounts Payable	68,901,091	
Subcontracting Accounts Payable	6,048,937	
Income Tax Appropriation	437,600	
Deposits Received	8,130,996	
Consumption Tax Payable	165,700	
Total Current Liabilities		390,091,096
II Fixed Liabilities		
Long Term Loan	199,200,000	
Total Fixed Liabilities		199,200,000
Total Liabilities		589,291,096

Section of Net Assets

I Shareholders Equity		
1 Capital	50,000,000	50,000,000
2 Capital Surplus		
Capital Reserve	32,628,236	
Other Capital Reserve	16,300,000	
Total Capital Surplus		48,928,236
3 Retained Earnings		
(1) Earnings Reserve	5,000,000	
(2) Other Retained Earnings		
Other Reserve	50,000,000	
Retained Earnings Brought Forward	300,876,083	
Total Retained Earnings		355,876,083
Total Shareholders Equity		454,804,319
Total Net Assets		454,804,319
Total Net Assets & Liabilites		1,044,095,415

Profit and Loss Account

From 1 April 2011
To 31 March 2012

Denso Industry Co., Ltd. (Unit : Yen)

I Net Sales		
Sales	1,794,862,211	1,794,862,211
II Cost of Sales		
Opening Stock	53,393,972	
Purchase	641,358,256	
Net Manufacturing Cost	742,125,308	
Total	1,436,877,536	
Closing stock	27,557,266	1,409,320,270
Gross Profit		385,541,941
III Selling, General & Administrative Expenses		
Director Salaries	46,760,000	
Salaries	126,368,685	
Bouns	5,712,260	
Commuting Expenses	4,800,792	
Miscellaneous give	1,049,400	
Wage	4,675,051	
Statutory Welfare	26,274,222	
Welfare Benefits Expenses	4,072,406	
Advertising Expenses	28,571	
Freight Charges	13,416,008	
Travelling Expenses	12,679,231	
Entertainment Expenses	2,190,226	
Vehicles Fees	2,972,395	
Communication Fees	4,973,572	
Utilities Expenses	4,545,971	
Taxes	1,895,900	
Office Supplies Expenses	4,841,916	
Stationery Expenses	750,402	
Rental Expenses	2,823,600	
Repair Expenses	9,253,995	
Insurance Expenses	8,654,269	
Commission Expenses	1,102,839	
Various Fees	287,474	
Books and Newspaper Expenses	613,241	
Depreciation and Amortization	7,640,022	
Allowance for Doubtful Debts	3,310,000	
Rent	57,077,232	
Outsourcing Expenses	44,346,583	
Donation	45,000	
Sundry Expenses	1,145,259	404,306,522
Operating Loss		18,764,581
IV Non-Operating Income		
Interest Income	85,199	
Dividend Income	800	
Sundry Income	8,708,232	8,794,231
V Non-Operating Expenses		
Interest Expenses	1,763,247	
Loss on Sales	2,485,794	
Sundry Loss	695,034	4,944,075
Ordinary Loss		14,914,425
VI Extraordinary Income		
Reversal of Allowance for Doubtful	5,460,000	
Foreign Exchange Gains	9,891,279	
Impairment Loss - Disaster	3,541,145	18,892,424
VII Extraordinary Loss		
Loss on Disposal of Fixed Assets	11,829	
Foreign Exchange Loss	21,248,899	21,260,728
Net Loss before Tax		17,282,729
Income Taxes, resident Tax and career Tax		889,500
Net Loss		18,172,229

Manufacturing Cost Report

From 1 April 2011
To 31 March 2012

Denso Industry Co., Ltd.

(Unit : Yen)

I Raw Material Costs		
Opening Stock of Raw Materials	89,219,578	
Purchase of Raw Materials	362,880,754	
Total	452,100,332	
Closing Stock of Raw Materials	73,426,045	378,674,287
II Labor Costs		
Wages	104,980,816	
Labor Fee	33,845,139	
Bonus	8,722,805	
Statutory Welfare	22,550,745	
Welfare Benfits Expenses	4,641,834	
Commuting Expenses	3,435,760	178,177,099
III Subcontracting Costs		
Subcontracting Costs	112,576,705	112,576,705
IV Manufacturing Expenses		
Utilities Expenses	7,054,843	
Freight Charges	7,446,691	
Repair Expenses	2,275,435	
Taxes	1,274,740	
Rental Expenses	4,130,620	
Insurance Expenses	21,500	
Office Supplies	9,200,266	
Vehicle Expenses	816,921	
Travelling Expenses	1,347,673	
Communication Fees	1,568,516	
Depreciation and Amortization	8,935,916	
Rent	11,626,292	
Entertainment Expenses	644,802	
Consumable Tooling Costs	279,923	
Stationery Expenses	1,571,148	
Various Fees	122,505	
Advertising Expenses	2,857	
Books and Newspaper Expenses	80,097	
Commission Expenses	190,952	
Conference Fees	74,274	
Outsourcing Expenses	3,280,408	
Donation	1,000	
Sundry Expenses	632,049	62,579,428
Net Manufacturing Expenses		732,007,519
Opening Stock of Work in Progress		37,955,938
Total		769,963,457
Closing Stock of Work in Progree		27,838,149
Net Finished Goods Manufacturing Costs		742,125,308

Statement of Changes in Net Assets

From 1 April 2011
To 31 March 2012

Denso Industry Co., Ltd. (Unit : Yen)

【Shareholders Equity】		
【Capital】	Opening balance & Closing balance for the year	50,000,000
【Capital Surplus】		
Capital Reserve	Opening balance & Closing balance for the year	48,928,236
Total Capital Surplus	Opening Balance	48,928,236
	Change for the year	0
	Closing Balance	48,928,236
【Retained Earnings】		
Earnings Reserve	Opening balance & Closing balance for the year	5,000,000
【Other Retained Earnings】		
Other Reserve	Opening balance & Closing balance for the year	50,000,000
Retained Earnings b/f	Opening Balance	319,048,312
	Change amount for the year, Net loss for the year	18,172,229
	Closing balance	300,876,083
Total Retained Earnings	Opening balance	374,048,312
	Change amount for the year	△ 18,172,229
	Closing balance	355,876,083
Total Shareholders Equity	Opening balance	472,976,548
	Change amount for the year	△ 18,172,229
	Closing balance	454,804,319
Total Net Assets	Opening balance	472,976,548
	Change amount for the year	△ 18,172,229
	Closing balance	454,804,319

Denso Industry Co., Ltd.

INDIVIDUAL FINANCIAL STATEMENT

From 1 April 2011
To 31 March 2012

1. The financial statements have the guildines on small business accounting

2. Important notes on relating to significant accounting policies
   (1) Depreciation of fixed assets
   Tangiable fixed assets The reducing-balance method over the provision of the Corporation Tax Act.
   Intangiable fixed assets The reducing-balance method over the provision of the Corporation Tax Act.

   (2) Accounting standards of provision
   Allowance for doubtful accounts In order to provide for losses on bad debts, a provision for legal markups t the provisions of the Corporation Tax Law for general claims

   (3) Other important matters basis for the creation of financial statements
   Lease processing method For leases, it was according to the method of engagement as operating leases agreeme

   (4) Accounting for consume tax
   Accounting for consume tax, depending on Tax report processing.

3. Notes on Balance Sheet
   (1) Amount of the debt, such as debt guarantees
   Trade receivable discounted JPY73,099,884

   (2) Amount of accumulated depreciation of fixed assets
   Amount of accumulated depreciation of tangiable fixed assets JPY324,301,698
   Amount of accumulated depreciation of intangiable fixed assets JPY2,892,751

4. Notes on Statement of Changes in Net Assets
   (1) Number of Issued Shares 33,472 stock

5. Other Notes
   The annual Shareholders' meeting was held on 22 May 2012, the above proposal has been approved

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Financial statements

(7th)

From 1 April 2012
To 31 March 2013

Denso Industry Co., Ltd.

2-12-9 Shin-yokohama, Kohoku-ku, Yokohama City, Japan.

Balance Sheet

As at 31 March 2013

Denso Industry Co., Ltd

(Unit - Yen)

Section of Asset

I Current Assets		
Cash, Deposit	317,417,084	
Trade Receivable	140,074,174	
Accounts Receivable	108,967,459	
Trade Discount	△ 103,133,418	
Factory receivable	102,076,545	
Goods	14,185,010	
Finished Goods	13,620,123	
Work in Progress	34,708,408	
Raw Materials	70,660,522	
Advance Payment	250,000	
Accrued Revenue	44,712,200	
Temporary Payment	251,112	
Prepayment	214,326	
Allowance for doubtful accounts	△ 2,680,000	
Total Current Assets		741,323,545
II Fixed Assets		
1 Tangible Fixed Assets		
Building	45,225,591	
Leasehold	1,795,030	
Construction	966,953	
Machinery & Equipment	9,010,623	
Vehicle	597,509	
Tools, Furniture & Fixture	8,453,605	
Land	29,500,000	
Minor Assets	1,233,411	
Total Tangible Fixed Assets	96,782,722	
2 Intangible Fixed Asset		
Software	3,008,132	
Telephone Subscription Right	2,355,828	
Total Intangible Fixed Assets	5,363,960	
3 Investemnt and Other Assets		
Investment	20,000	
Guarantee Deposit	1,731,880	
Premium Deposit	30,300,923	
Golf Club Membership	300,000	
Total Investment and Other Assets	32,352,803	
Total Fixed Assets		134,499,485
Total Assets		875,823,030

Section of Liabilities

I Current Liabilities		
Trade Payable	165,317,351	
Accounts Payable	59,230,012	
Other Accounts Payable	18,822,729	
Subcontracting Accounts Payable	6,707,470	
Income Tax Appropriation	889,500	
Deposits Received	7,630,947	
Consumption Tax Payable	1,494,100	
Total Current Liabilities		260,082,109
II Fixed Liabilities		
Long Term Loan	198,916	
Total Fixed Liabilities		198,916
Total Liabilities		458,998,109

Section of Net Assets

I Shareholders Equity		
1 Capital	50,000,000	50,000,000
2 Capital Surplus		
Capital Reserve	32,628,236	
Other Capital Reserve	16,300,000	
Total Capital Surplus		48,928,236
3 Retained Earnings		
(1) Earnings Reserve	5,000,000	
(2) Other Retained Earnings		
Other Reserve	50,000,000	
Retained Earnings Brought Forward	262,896,685	
Total Retained Earnings		317,896,685
Total Shareholders Equity		416,824,921
Total Net Assets		416,824,921
Total Net Assets & Liabilites		875,823,030

Profit and Loss Account

From 1 April 2012
To 31 March 2013

Denso Industry Co., Ltd.

(Unit : Yen)

I Net Sales		
Sales	1,275,702,563	1,275,702,563
II Cost of Sales		
Opening Stock	27,557,266	
Purchase	380,344,422	
Net Manufacturing Cost	601,582,830	
Total	1,009,484,518	
Closing stock	27,805,133	981,679,385
Gross Profit		294,023,178
III Selling, General & Administrative Expenses		
Director Salaries	47,168,000	
Salaries	111,928,204	
Bouns	4,525,000	
Commuting Expenses	3,741,738	
Redundancy Payments	1,435,400	
Wage	4,389,596	
Statutory Welfare	21,816,478	
Welfare Benefits Expenses	5,216,442	
Advertising Expenses	28,571	
Freight Charges	8,224,879	
Travelling Expenses	11,184,004	
Entertainment Expenses	2,369,935	
Vehicles Fees	3,668,646	
Communication Fees	3,869,539	
Utilities Expenses	5,267,977	
Taxes	1,733,650	
Office Supplies Expenses	4,354,745	
Stationery Expenses	863,983	
Rental Expenses	3,210,096	
Repair Expenses	10,102,508	
Insurance Expenses	9,462,759	
Commission Expenses	1,162,953	
Various Fees	237,569	
Books and Newspaper Expenses	543,794	
Depreciation and Amortization	5,267,493	
Allowance for Doubtful Debts	2,680,000	
Rent	53,822,372	
Outsourcing Expenses	30,912,204	
Sundry Expenses	3,626,299	362,814,834
Operating Loss		68,791,656
IV Non-Operating Income		
Interest Income	75,645	
Dividend Income	800	
Sundry Income	32,523,890	32,600,335
V Non-Operating Expenses		
Interest Expenses	2,497,924	
Loss on Sales	1,544,630	
Sundry Loss	240,107	4,282,661
Ordinary Loss		40,473,982
VI Extraordinary Income		
Gain on sales of Fixed Assets	542,702	
Reversal of Allowance for Doubtful	3,310,000	3,852,702
VII Extraordinary Loss		
Foreign Exchange Loss	468,618	468,618
Net Loss before Tax		37,089,898
Income Taxes, resident Tax and career Tax		889,500
Net Loss		37,979,398

Manufacturing Cost Report

From 1 April 2012
To 31 March 2013

Denso Industry Co., Ltd. (Unit : Yen)

I Raw Material Costs		
Opening Stock of Raw Materials	73,426,045	
Purchase of Raw Materials	289,303,757	
Total	362,729,802	
Closing Stock of Raw Materials	70,660,522	292,069,280
II Labor Costs		
Wages	103,329,010	
Labor Fee	25,884,806	
Bonus	7,840,000	
Redundancy Payments	417,700	
Statutory Welfare	18,374,707	
Welfare Benfits Expenses	4,849,965	
Commuting Expenses	3,020,185	163,716,373
III Subcontracting Costs		
Subcontracting Costs	90,342,840	90,342,840
IV Manufacturing Expenses		
Utilities Expenses	6,337,840	
Freight Charges	6,133,740	
Repair Expenses	1,128,375	
Taxes	1,114,200	
Rental Expenses	3,828,884	
Insurance Expenses	616,480	
Office Supplies	9,036,662	
Vehicle Expenses	1,119,915	
Travelling Expenses	2,996,607	
Communication Fees	1,470,766	
Depreciation and Amortization	9,157,345	
Rent	14,975,316	
Entertainment Expenses	256,345	
Consumable Tooling Costs	575,674	
Stationery Expenses	1,284,802	
Various Fees	146,209	
Advertising Expenses	2,857	
Books and Newspaper Expenses	81,552	
Commission Expenses	111,169	
Conference Fees	39,709	
Outsourcing Expenses	1,347,898	
Donation	5,000	
Sundry Expenses	557,251	62,324,596
Net Manufacturing Expenses		608,453,089
Opening Stock of Work in Progress		27,838,149
Total		636,291,238
Closing Stock of Work in Progree		34,708,408
Net Finished Goods Manufacturing Costs		601,582,830

Statement of Changes in Net Assets

From 1 April 2012
To 31 March 2013

Denso Industry Co., Ltd. (Unit : Yen)

【Shareholders Equity】		
【Capital】	Opening balance & Closing balance for the year	50,000,000
【Capital Surplus】		
Capital Reserve	Opening balance & Closing balance for the year	48,928,236
Total Capital Surplus	Opening Balance	48,928,236
	Change for the year	0
	Closing Balance	48,928,236
【Retained Earnings】		
Earnings Reserve	Opening balance & Closing balance for the year	5,000,000
【Other Retained Earnings】		
Other Reserve	Opening balance & Closing balance for the year	50,000,000
Retained Earnings b/f	Opening Balance	300,876,083
	Change amount for the year, Net loss for the year	37,979,396
	Closing balance	262,896,685
Total Retained Earnings	Opening balance	355,876,083
	Change amount for the year	△ 37,979,398
	Closing balance	317,896,685
Total Shareholders Equity	Opening balance	454,804,319
	Change amount for the year	△ 37,979,398
	Closing balance	416,824,921
Total Net Assets	Opening balance	454,804,319
	Change amount for the year	△ 37,979,398
	Closing balance	416,824,921

Denso Industry Co., Ltd.

INDIVIDUAL FINANCIAL STATEMENT

From 1 April 2012
To 31 March 2013

1. The financial statements have the guildines on small business accounting

2. Important notes on relating to significant accounting policies
   (1) Depreciation of fixed assets
   Tangible fixed assets The reducing-balance method over the provision of the Corporation Tax Act.
   Intangible fixed assets The reducing-balance method over the provision of the Corporation Tax Act.

   (2) Accounting standards of provision
   Allowance for doubtful accounts In order to provide for losses on bad debts, a provision for legal markups the provisions of the Corporation Tax Law for general claims

   (3) Other important matters basis for the creation of financial statements
   Lease processing method For leases, it was according to the method of engagement as operating leases agreeme
   (4) Accounting for consume tax
   Accounting for consume tax, depending on Tax report processing.

3. Notes on Balance Sheet
   (1) Amount of the debt, such as debt guarantees
   Trade receivable discounted JPY103,133,418

   (2) Amount of accumulated depreciation of fixed assets
   Amount of accumulated depreciation of tangible fixed assets JPY333,428,036
   Amount of accumulated depreciation of intangible fixed assets JPY4,020,368

4. Notes on Statement of Changes in Net Assets
   (1) Number of Issued Shares 33,472 stock

5. Other Notes
   The annual Shareholders' meeting was held on 24 May 2013, the above proposal has been approved

証謄本

平成２６年登簿第　７５　号

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認　　証

デンソー工業株式会社　代表取締役　麻生　智彦　は、本公証人の面前において、添付書面に署名押印した。

よって、これを認証する。

平成２６年　３　月　４　日、本公証人役場において

横浜市西区北幸一丁目5番10号

横浜地方法務局所属

公　証　人

Notary

打越康雄

YASUO UCHIKOSHI

公証人打越康雄印

総公証 №　400246 号

証　　明

上記署名は、横浜地方法務局所属公証人の署名に相違ないものであり、かつ、その押印は、真実のものであることを証明する。

平成２６年　３　月　４　日

横浜地方法務局長　　髙村一之

横浜地方法務局長之印

CERTIFICATE

This is to certify that the signature affixed above has been provided by Notary, duly authorized by the Yokohama District Legal Affairs Bureau and that the Official Seal appearing on the same is genuine.

Date MAR. 4. 2014

Kazuyuki TAKAMURA

Director of the Yokohama District Legal Affairs Bureau

For legalization by the foreign consul in Japan, this is to certify that the Seal affixed hereto is genuine.

Date MAR. 4. 2014

A. Ogawa

Ayako OGAWA

Tokyo, ______________________

Official

Ministry of Foreign Affairs

(Consular Service Division)

Registered No. 75

NOTARIAL CERTIFICATE

This is to certify that Tomohiko Aso, Representative Director of Denso Industry Co., Ltd., signed and sealed the attached document in my presence on this 4 day of March 2014.

YOKOHAMA
DISTRICT LEGAL AFFAIRS BUREAU
NOTARY
1-5-10 Kitasaiwai Nishi-ku
YOKOHAMA, JAPAN

Yasuo Uchikoshi

YASUO UCHIKOSHI

Notary

Yokohama District Legal

Affairs Bureau

1-5-10 Kitasaiwai Nishi-ku

Yokohama-city, Japan

Company Formation Documents sent to DICA

The Director General
Directorate of Investment and Company Administration
Ministry of National Planning and Economic Development
Building No.32
Nay Pyi Taw.

Date:

SUBJECT: **BUSINESS ACTIVITIES**

Dear Sir:

The business activities of the **DENSO INDUSTRY YANGON LIMITED** are manufacturing and selling of electrical parts(wire harness), providing services for, importing materials for the manufacturing business, exporting goods manufactured from the business and other related services incidental to the above stated activities.

For and on behalf of
DENSO INDUSTRY YANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

သို့ /

ညွှန်ကြားရေးမှူးချုပ်
ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန
အမျိုးသားစီမံကိန်းနှင့် စီးပွားရေးဖွံ့ဖြိုးတိုးတက်မှုဝန်ကြီးဌာန
ရုံးအမှတ်-၃၂၊ နေပြည်တော်။

ရက်စွဲ ။

အကြောင်းအရာ။ ။ ဆောင်ရွက်ချက်များ နှင့် ကတိဝန်ခံချက်

DENSO INDUSTRY (YANGON) LIMITED ၏ လုပ်ငန်းရပ်များမှာ လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ပိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်း၊ ၎င်းလုပ်ငန်းများအတွက် သွင်းကုန်များ တင်သွင်းခြင်းနှင့် ဝန်ဆောင်မှုလုပ်ငန်းများ၊ ထိုမှ ထုတ်ကုန်များအား တင်ပို့ခြင်းနှင့် အခြားဆက်စပ်နေသော အသေးစားဝန်ဆောင်မှုလုပ်ငန်းများကို ဆောင်ရွက်မည် ဖြစ်ပါသည်။

For and on behalf of

DENSO INDUSTRY (YANGON) LIMITED

Mr. Takashi MISHIMA

Authorized Person

Date : _______

The Director General
Directorate of Investment and Company Administration,
Ministry of National Planning and Economic Development,
Building No.32,
Nay Pyi Taw.

Dear Sir,

Subject: **List of intended economic or business**

In connection with the above subject matter, we hereby confirm that the following intended business activities that will be carried out soon after incorporation of "**DENSO INDUSTRY MYANGON LIMITED** " are as follows:-

(1) Manufacturing and Selling of electrical parts(wire harness);
(2) Providing services for the above stated activities ;
(3) Importing materials for the above mentioned business;
(4) Exporting manufactured goods from above mentioned business; and
(5) Other related services incidental to the above stated activities.

Yours truly,

For and on behalf of
DENSO INDUSTRY MYANGON LIMITED

Mr. Takashi MISHIMA
Authorized Person

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FORM XXVI

PARTICULARS OF DIRECTORS, MANAGERS AND MANAGING AGENTS AND OF ANY CHANGES THEREIN

(Myanmar Companies Act, See Section 87)

Name of Company : Denso Industry Yangon Limited.

Presented by :

The Present Christian name or names of surnames	Nationality, National Registration Card No.	Usual Residential Address	Other Business Occupation	Changes
Mr. Takashi MISHIMA	Japan TZ0468392	Flat 10, 15F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. Hongkong.		Director
Mr. Kazubumi FUSE	Japan TH4441171	2766-17, Izumi-Cho, Izumi-Ku, Yokohama-City, Kanggawa, Japan.		Director

NOTE :

(1) A complete list of the Directors or Managers or Managing Agents shown as existing in the last particulars.

(2) A note of the changes since the last list should be made in the column for " Changes" by placing against the new Director's name the word " in place of ...." and by writing against any former Director's name the word "dead " " resigned" or as the case may be giving the date of change against the entry

Signature ....
Mr. Takashi MISHIMA
for and on the behalf of

Dated this

မြန်မာနိုင်ငံ ကုမ္ပဏီများ အက်ဥပဒေ

အစုရှယ်ယာများဖြင့် ပေးရန်တာဝန် ကန့်သတ်ထားသော အများနှင့် မသက်ဆိုင်သည့်ကုမ္ပဏီ

ဒန်ဆို အင်ဒတ်စတြီ ရန်ကုန် လီမိတက်

၏

သင်းဖွဲ့မှတ်တမ်း

နှင့်

သင်းဖွဲ့စည်းမျဉ်းများ

❖❖❖❖

THE MYANMAR COMPANIES ACT

PRIVATE COMPANY LIMITED BY SHARES

Memoradum Of Association

AND

Articles Of Association

OF

DENSO INDUSTRY YANGON LIMITED

မြန်မာနိုင်ငံ ကုမ္ပဏီများ အက်ဥပဒေ

အစုရှယ်ယာများဖြင့် ပေးရန်တာဝန် ကန့်သတ်ထားသော အများနှင့် မသက်ဆိုင်သည့် ကုမ္ပဏီ

ဒန်ဆို အင်ဒတ်စတြီ ရန်ကုန် လီမိတက်

၏

သင်းဖွဲ့မှတ်တမ်း

❖❖❖❖❖❖❖❖

၁။ **ကုမ္ပဏီ၏အမည်သည်** ဒန်ဆို အင်ဒတ်စတြီ ရန်ကုန် **လီမိတက် ဖြစ်ပါသည်။**

၂။ ကုမ္ပဏီ၏ မှတ်ပုံတင် အလုပ်တိုက်သည် ပြည်ထောင်စု မြန်မာနိုင်ငံတော်အတွင်း တည်ရှိရမည်။

၃။ ကုမ္ပဏီ တည်ထောင်ရခြင်း၏ ရည်ရွယ်ချက်များမှာ တစ်ဖက်စာမျက်နှာပါအတိုင်းဖြစ်ပါသည်။

၄။ အစုဝင်များ၏ ပေးရန်တာဝန်ကို ကန့်သတ်ထားသည်။

၅။ ကုမ္ပဏီ၏ သတ်မှတ်မတည်ငွေရင်းသည် ကျပ် US$2,000,000 /-(ကျပ် United States Dollars Two Million တိတိ) ဖြစ်၍ငွေကျပ် US$ 10/- /-(ကျပ် United States Dollars Ten တိတိ) တန် အစုရှယ်ယာပေါင်း (200,000) ခွဲထားပါသည်။ ကုမ္ပဏီ၏ ရင်းနှီးငွေကို ကုမ္ပဏီ၏ စည်းမျဉ်းများနှင့် လက်ရှိတရားဝင် တည်ဆဲဖြစ်နေသောတရားဥပဒေ အထွေထွေပဋ္ဌာန်းချက်များနှင့်အညီ သင်းလုံးကျွတ် အစည်းအဝေး၌ တိုးမြှင့်နိုင်ခွင့်၊ လျှော့ချနိုင်ခွင့်နှင့် ပြင်ဆင်နိုင်ခွင့် အာဏာရှိစေရမည်။

၆။ ကုမ္ပဏီတည်ထောင်ရခြင်း၏ ရည်ရွယ်ချက်များမှာ

(၁) လျှပ်စစ်ဆိုင်ရာ ပစ္စည်းအစိတ်အပိုင်းများ (ဝိုင်ယာထိန်းကြိုး) ထုတ်လုပ်ခြင်းနှင့် ရောင်းချခြင်း၊
(၂) ၄င်းလုပ်ငန်းများအတွက် သွင်းကုန်များ တင်သွင်းခြင်းနှင့် ဝန်ဆောင်မှုလုပ်ငန်းများ၊
(၃) ထိုမှ ထုတ်ကုန်များအား တင်ပို့ခြင်းနှင့်
(၄) အခြားဆက်စပ်နေသော အသေးစားဝန်ဆောင်မှုလုပ်ငန်းများကို ဆောင်ရွက်ရန်ဖြစ်ပါသည်။

၇။ ကုမ္ပဏီမှ သင့်တော်လျှောက်ပတ်သည်ဟု ယူဆပါက ကုမ္ပဏီ၏ စီးပွားရေးလုပ်ငန်းတွင် အကျိုးရှိစေရန် အတွက် မည်သည့်ပုဂ္ဂိုလ်၊ စီးပွားရေးအဖွဲ့အစည်း၊ ကုမ္ပဏီ၊ ဘဏ်၊ သို့မဟုတ်၊ ငွေကြေး အဖွဲ့အစည်း ထံမှမဆို ငွေချေးယူရန်။

ခြွင်းချက်။ ကုမ္ပဏီသည် အထက်ဖော်ပြပါ ရည်ရွယ်ချက်များကို ပြည်ထောင်စုသမ္မတနိုင်ငံတော် အတွင်း၌ ဖြစ်စေ၊ အခြားမည်သည့် အရပ်ဒေသ၌ဖြစ်စေ၊ အချိန်ကာလအလိုက် တည်မြဲနေသော ာရားဥပဒေများ၊ အမိန့်ကြော်ငြာစာများ၊ အမိန့်များက ခွင့်ပြုထားသည့် လုပ်ငန်းများမှအပ ခြားလုပ်ငန်း များကို လုပ်ကိုင်ဆောင်ရွက်ခြင်းမပြုပါ။ ထို့အပြင် ပြည်ထောင်စု ာမ္မတမြန်မာနိုင်ငံတော်အတွင်း၌ အချိန် ကာလအားလျော်စွာ တည်မြဲနေသည့် တရားဥပဒေ ၫ္ဍာန်းချက်များ၊ အမိန့်ကြော်ငြာစာများ၊ အမိန့်များနှင့် လျော်ညီသင့်တော်ခြင်း သို့မဟုတ်၊ ှင့်ပြုထားခြင်းရှိမှသာလျှင် လုပ်ငန်းများကို ဆောင်ရွက်မည်ဟု ခြွင်းချက်ထား ရှိပါသည်။

(-၃)

အောက်တွင် အမည်၊နိုင်ငံသား၊ နေရပ်နှင့် အကြောင်းအရာစုံလင်စွာပါသော ဇယားတွင် လက်မှတ်ရေး ထိုးသူ ကျွန်ုပ်တို့ကိုယ်စီကိုယ်ငှသည် ဤသင်းဖွဲ့မှတ်တမ်းအရ ကုမ္ပဏီတစ်ခုဖွဲ့စည်းရန် လိုလားသည့် အလျောက် ကျွန်ုပ်တို့ ၏အမည်အသီးသီးနှင့် ယှဉ်တွဲ၍ပြထားသော အစုရှယ်ယာများကို ကုမ္ပဏီ ၏ မတည်ရင်းနှီးငွေတွင် ထည့်ဝင်ရယူကြရန် သဘောတူကြပါသည်။

စဉ်	အစုထည့်ဝင်သူများ၏ အမည်၊နေရပ်လိပ်စာနှင့် အလုပ်အကိုင်	နိုင်ငံသားနှင့် အမျိုးသား မှတ်ပုံတင်အမှတ်	ဝယ်ယူသော အစုရှယ်ယာ ဦးရေ	ထိုးမြဲလက်မှတ်
1	DENSO INDUSTRY ASIA CO., LTD. Flat 10, 15F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. Hongkong Represented by: Mr. Kazubumi FUSE 2766-17, Izumi-Cho, Izumi-Ku, Yokohama- City, Kanagawa, Japan.	Incorporated in Hongkong I.C No. 62154019-000-10-13-3 Hongkong P.P No. TH4441171	79,999 shares	布施 和文
2	DENSO INDUSTRY CO., LTD. 2-12-9, Shin-yokohama, Kohoku-ku, Yokohama City, Japan Represented by: Mr. Tomohiko ASO (Nominee Shareholder) 4-27-5, Kaminoge, Setagaya-Ku, Tokyo, Japan	Incorporated in Japan I.C No. 0200-01-086081 Japan P.P No. TK9679241	1 share	麻生智彦

ရန်ကုန်။ နေ့စွဲ။ ၂၀၁၄ ခုနှစ်။ ၊ ရက်။

အထက်ပါ လက်မှတ်ရှင်များသည် ကျွန်ုပ်တို့၏ ရှေ့မှောက်တွင် လက်မှတ်ရေးထိုးကြပါသည်။

San San Yi (P-361)
B C...

(၄)

မြန်မာနိုင်ငံ ကုမ္ပဏီများ အက်ဥပဒေ

အစုရှယ်ယာများဖြင့် ပေးရန်တာဝန်ကန့်သတ်ထားသော အများနှင့် မသက်ဆိုင်သည့်ကုမ္ပဏီ ဒန်ဆိုအင်ဒတ်စတြီ ရန်ကုန် လီမိတက်

၏

သင်းဖွဲ့ စည်းမျဉ်းများ

❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖

၁။ ဤသင်းဖွဲ့စည်းမျဉ်းနှင့် လိုက်လျောညီထွေမဖြစ်သည့် စည်းမျဉ်းများမှအပ၊ မြန်မာနိုင်ငံ ကုမ္ပဏီများအက်ဥပဒေ နောက်ဆက်တွဲ ပထမ ဇယားပုံစံ "က" ပါစည်းမျဉ်းများသည် ဤကုမ္ပဏီနှင့် သက်ဆိုင်စေရမည်။ မြန်မာနိုင်ငံကုမ္ပဏီများ အက်ဥပဒေပုဒ်မ ၁၇(၂)တွင် ဖေါ်ပြပါရှိသည့် မလိုက်နာ မနေရစည်းမျဉ်းများသည် ဤကုမ္ပဏီနှင့်အစဉ်သဖြင့် သက်ဆိုင်စေရမည်။

အများနှင့်မသက်ဆိုင်သောကုမ္ပဏီ

၂။ ဤကုမ္ပဏီသည် အများနှင့်မသက်ဆိုင်သည့်ကုမ္ပဏီဖြစ်၍ အောက်ပါသတ်မှတ်ချက်များသည် အကျိုးသက် ရောက်စေရမည်။

(က) ဤကုမ္ပဏီကခန့် အပ်ထားသော ဝန်ထမ်းများမှအပ၊ ဤကုမ္ပဏီ၏ အစုရှင်အရေအတွက်ကို ငါးဆယ် အထိသာ ကန့်သတ်ထားသည်၊

(ခ) ဤကုမ္ပဏီ၏အစုရှယ်ရာ သို့ မဟုတ် ဒီဘင်ချာစတော့(ခ်) တစ်ခုခုအတွက်ငွေထည့်ဝင်ရန်အများပြည်သူတို့အား ကမ်းလှမ်းခြင်းမပြုလုပ်ရန် တားမြစ်ထားသည်၊

မတည်ရင်းနှီးငွေနှင့် အစုရှယ်ယာ

၃။ ကုမ္ပဏီ၏ သတ်မှတ် မတည်ငွေရင်းသည် US$ ၂,၀၀၀,၀၀၀/- (United States Dollars Two Million Only) ဖြစ်၍ US$ ၁၀ (အမေရိကန်ဒေါ်လာ တစ်ဆယ် တိတိ) တန် အစုရှယ်ယာပေါင်း (၂၀၀,၀၀၀) ခွဲထားပါသည်။ ကုမ္ပဏီ၏ ရင်းနှီးငွေကို ကုမ္ပဏီ၏ စည်းမျဉ်းများနှင့်လက်ရှိတရားဝင် တည်ဆဲဖြစ်နေသော တရားဥပဒေပြဋ္ဌာန်းချက်များနှင့်အညီ အထွေထွေသင်းလုံးကျွတ် အစည်းဝေးတွင်တိုးမြှင့်နိုင်ခွင့်၊ လျှော့ချနိုင်ခွင့်နှင့်ပြင်ဆင်နိုင်ခွင့်အာဏာရှိစေရမည်။

၄။ မြန်မာနိုင်ငံကုမ္ပဏီများ အက်ဥပဒေပါ ပြဋ္ဌာန်းချက်များကို မထိခိုက်စေလျက် အစုရှယ်ယာများသည် ဒါရိုက်တာများ၏ကြီးကြပ်ကွပ်ကဲမှုအောက်တွင် ရှိစေရမည်။ ၎င်းဒါရိုက်တာများသည် သင့်လျော်သောပုဂ္ဂိုလ်များအား သတ်မှတ်ချက်အခြေအနေ တစ်စုံတစ်ရာဖြင့် အစုရှယ်ယာများကိုခွဲဝေချထားခြင်း သို့ မဟုတ် ထုခွဲရောင်းချခြင်းတို့ ကို ဆောင်ရွက်နိုင်သည်။

(၁)

၅။ အစုရှယ်ယာလက်မှတ်များကို အထွေထွေမန်နေဂျာ သို့မဟုတ်ဒါရိုက်တာအဖွဲ့ ကသတ်မှတ်သည့်အခြား ပုဂ္ဂိုလ်များကလက်မှတ်ရေးထိုး၍ ကုမ္ပဏီ၏တံဆိပ်ရိုက်နှိပ်ထုတ်ပေးရမည်။ အစုရှယ်ယာလက်မှတ်သည် ပုံပျက်ခြင်း၊ ပျောက်ဆုံးခြင်း၊ သို့ မဟုတ် ပျက်စီးခြင်းဖြစ်ပါက အဖိုးအခဖြင့် ပြန်လည်အသစ် ပြုလုပ်ပေးမှုကိုသော်လည်းကောင်း၊ ဒါရိုက်တာများကသင့်လျော်သည်ဟုယူဆသော အခြားသက်သေခံ အထောက်အထားတစ်စုံတစ်ရာကို တင်ပြစေ၍သော်လည်းကောင်း၊ ထုတ်ပေးနိုင်သည်။ ကွယ်လွန်သွားသော အစုရှယ်ယာရှင်တစ်ဦး တရားဝင်ကိုယ်စားလှယ်ကို ဒါရိုက်တာများက အသိအမှတ်ပြုပေးရမည်။

၆။ ဒါရိုက်တာများသည် အစုရှင်များက ၎င်းတို့ အစုရှယ်ယာများအတွက် မပေးသွင်းရသေးသော ငွေများကို အခါအားလျော်စွာ တောင်းဆိုနိုင်သည်။ အစုရှင်တိုင်းကလည်း ၎င်းတို့ ထံတောင်းဆိုသည့် အကြိမ်တိုင်း အတွက် ဒါရိုက်တာများကသတ်မှတ်သည့် ပုဂ္ဂိုလ်များထံ သတ်မှတ်သည့်အချိန်နှင့်နေရာတွင် ပေးသွင်းစေရန် တာဝန်ရှိစေရမည်။ ဆင့်ခေါ်မှုတစ်ခုအတွက် အရစ်ကျပေးသွင်းစေခြင်း၊ သို့ မဟုတ် ပယ်ဖျက်ခြင်း သို့ မဟုတ် ရွှေ့ ဆိုင်းခြင်း တို့ ကို ဒါရိုက်တာများက သတ်မှတ်နိုင်သည်။

ဒါရိုက်တာများ

၇။ သင်းလုံးကျွတ် အစည်းဝေးက တစ်စုံတစ်ရာ သတ်မှတ်ပြဋ္ဌာန်းမှု မပြုလုပ်သမျှ ဒါရိုက်တာများ၏ အရေအတွက်သည် (၂) ဦး ထက်မနည်း၊ (၅) ဦးထက်မများစေရ။

ပထမဒါရိုက်တာများသည်-

(၁) Mr. Takashi MISHIMA
(၂) Mr. Kazubumi FUSE တို့ ဖြစ်ကြပါသည်။

၈။ ဒါရိုက်တာများသည် ၎င်းတိုအနက်မှ တစ်ဦးကို မန်နေဂျင်းဒါရိုက်တာအဖြစ် အချိန်အခါအလိုက် သင့်လျော်သော သတ်မှတ်ချက်များ၊ ဥာဏ်ပူဇော်ခများဖြင့် ခန့် ထားရမည်ဖြစ်ပြီး အခါအားလျော်စွာ ဒါရိုက်တာအဖွဲ့ ကပေးအပ်သောအာဏာများ အားလုံးကို ၎င်းကအသုံး ပြုနိုင်သည်။

၉။ ဒါရိုက်တာတစ်ဦးဖြစ်မြောက်ရန် လိုအပ်သောအရည်အချင်းသည် ကုမ္ပဏီ၏ အစုရှယ်ယာ အနည်းဆုံး (-) စု ပိုင်ဆိုင်ခြင်းဖြင့် ၎င်းသည် မြန်မာနိုင်ငံ ကုမ္ပဏီများ အက်ဥပဒေပုဒ်မ ၈၅ ပါပြဋ္ဌာန်း ချက်များကို လိုက်နာရန် တာဝန်ရှိသည်။

၁၀။ အစုရှယ်ယာများလွှဲပြောင်းရန်တင်ပြချက်ကို မည်သည့် အကြောင်းပြချက်မျှမပေးဘဲ ဒါရိုက်တာအဖွဲ့ သည် ၎င်းတို့ ပြည့်စုံ၍ ချုပ်ချယ်ခြင်းကင်းသော ဆင်ခြင်တွက်ဆမှုဖြင့် မှတ်ပုံတင်ရန် ငြင်းဆိုနိုင်သည်။

ဒါရိုက်တာများ၏ ဆောင်ရွက်ချက်များ

၁၁။ ဒါရိုက်တာများသည် ၎င်းတိုသင့်လျော်သည်ထင်မြင်သည့်အတိုင်း လုပ်ငန်းဆောင်ရွက်ရန် တွေ့ ဆုံဆွေးနွေးခြင်း၊အစည်းအဝေးရွှေ့ ဆိုင်းခြင်း၊အချိန်မှန်စည်းဝေးခြင်း၊အစည်းအဝေးအထမြောက်ရန်အနည်းဆုံး ဒါရိုက်တာဦးရေ သတ်မှတ်ခြင်းတို့ ကိုဆောင်ရွက်နိုင်သည်။ ယင်းသို့ မသတ်မှတ်ပါက ဒါရိုက်တာနှစ်ဦး တက်ရောက်လျှင် အစည်းအဝေးအထမြောက်ရမည်။အစည်းအဝေးတွင် မည်သည့် ပြဿနာမဆို ပေါ်ပေါက်ပါက မန်နေဂျင်း ဒါရိုက်တာ၏အဆုံးအဖြတ်သည်အတည်ဖြစ်ရမည်။ မည်သည့်ကိစ္စများကိုမဆို မဲခွဲဆုံးဖြတ်ရာတွင် မဲအရေအတွက်တူနေပါက သဘာပတိသည် ဒုတိယမဲ သို့ မဟုတ် အနိုင်မဲကို ပေးနိုင်သည်။

၁၂။ ဒါရိုက်တာများ၏ အစည်းအဝေးကို မည်သည့်ဒါရိုက်တာကမဆို အချိန်မရွေး ခေါ် ဆိုနိုင်သည်။

၁၃။ ဒါရိုက်တာအားလုံးက လက်မှတ်ရေးထိုးထားသော ရေးသားထားသည့်ဆုံးဖြတ်ချက်တစ်ရပ်သည် နည်းလမ်းတကျ ခေါ်ယူကျင်းပသော အစည်းအဝေးက အတည်ပြုသည့် ဆုံးဖြတ်ချက်ကဲ့သို့ပင် ကိစ္စအားလုံး အတွက် အကျိုးသက်ရောက်စေရမည်။

ဒါရိုက်တာများ၏ လုပ်ပိုင်ခွင့်နှင့်တာဝန်များ

၁၄။ မြန်မာနိုင်ငံ ကုမ္ပဏီများအက်ဥပဒေ နောက်ဆက်တွဲဇယားပုံစံ (က)ပါ စည်းမျဉ်းအပိုဒ် ၇၁ တွင် ပေးအပ်ထားသော အထွေထွေ အာဏာများကို မထိခိုက်စေဘဲဒါရိုက်တာများသည် အောက်ဖော်ပြပါ အာဏာများ ရှိရမည်ဟု အတိအလင်း ထုတ်ဖော်ကြေညာသည်။ အာဏာဆိုသည်မှာ –

(၁) ဒါရိုက်တာများက သင့်လျော်သည်ဟုယူဆသော တန်ဖိုးနှင့်စည်းကမ်းများ၊ အခြေအနေများ သတ်မှတ်၍ ကုမ္ပဏီကရယူရန်အာဏာရှိသည့် မည်သည့်ပစ္စည်း၊ အခွင့်အရေးများ၊ အခွင့်အလမ်းများကိုမဆိုဝယ်ယူရန် သို့မဟုတ် အခြားနည်းလမ်းများဖြင့်ရယူပိုင်ဆိုင်ရန်အပြင် ကုမ္ပဏီကပိုင်ဆိုင်ခွင့်ရှိသောမည်သည့်ပစ္စည်း၊ အခွင့်အရေးများ၊ အခွင့်အလမ်းများကိုမဆို သင့်တော်သောစည်းကမ်းချက်များ သတ်မှတ်၍ရောင်းချခြင်း၊ အငှားချခြင်း၊ စွန့်လွှတ်ခြင်း၊ သို့မဟုတ် အခြားနည်းလမ်းများဖြင့် ဆောင်ရွက်ခြင်းတို့ကို ပြုလုပ်ရန်။

(၂) သင့်လျော်သောစည်းကမ်းသတ်မှတ်ချက်များဖြင့်ငွေကြေးများကိုချေးငှားရန် သို့မဟုတ်အဆိုပါချေးငှား သော ငွေကြေးများကို ပြန်လည်ပေးဆပ်ရန်အတွက် အာမခံများထားရှိရန်အပြင်၊ အထူးသဖြင့် ဤကုမ္ပဏီ၏ ဒီဘင်ချာများ၊ ဒီဘင်ချာစတော့(ခ်)များ၊ ခေါ်ယူခြင်းမပြုရသေးသော ရင်းနှီးငွေများအပါအဝင် ယခုလက်ရှိနှင့် နောင်ရှိမည့် ပစ္စည်းများအားလုံး သို့မဟုတ် တစ်စိတ်တစ်ဒေသကို အပေါင်ပြု၍ ထုတ်ဝေရန်။

(၃) ဤကုမ္ပဏီက ရယူထားသော အခွင့်အရေးများ သို့မဟုတ် ဝန်ဆောင်မှုများအတွက် အားလုံး သို့မဟုတ် တစ်စိတ်တစ်ဒေသကို ငွေကြေးအားဖြင့် ပေးချေရန်၊ သို့မဟုတ် အစုရှယ်ယာများ၊ ငွေချေးစာချုပ်များ၊ ဒီဘင်ချာများ သို့မဟုတ် ဤကုမ္ပဏီ၏အခြားသော အာမခံစာချုပ်များကို ထုတ်ပေးရန်၊ ထို့အပြင် အဆိုပါ အစုရှယ်ယာများ ထုတ်ပေးရာ၌ ငွေအပြည့် ပေးသွင်းပြီးသော အစုရှယ်ယာအနေဖြင့် သော်လည်းကောင်း၊ တစ်စိတ်တစ်ဒေသ ပေးသွင်းပြီးသော အစုရှယ်ယာများ အနေဖြင့်သော်လည်းကောင်း သဘောတူညီသကဲ့သို့ ထုတ်ဝေပေးရန်နှင့် အဆိုပါ ငွေချေးစာချုပ်များ၊ ဒီဘင်ချာများ သို့မဟုတ် ကုမ္ပဏီ၏ အခြားသော အာမခံစာချုပ်များဖြင့် ထုတ်ဝေပေးရာ၌ ခေါ်ဆိုခြင်း မပြုရသေးသော ရင်းနှီးငွေများ အပါအဝင် ဤကုမ္ပဏီ၏ ပစ္စည်းအားလုံး သို့မဟုတ် တစ်စိတ်တစ်ဒေသကို အပေါင်ပြု၍ဖြစ်စေ၊ ထိုကဲ့သို့မဟုတ်ဘဲဖြစ်စေ ထုတ်ပေးရန်။

(၄) ဤကုမ္ပဏီနှင့် ပြုလုပ်ထားသော ကန်ထရိုက်စာချုပ်များ၊ တာဝန်ယူထားသည့်လုပ်ငန်းများ ပြီးစီးအောင် ဆောင်ရွက်စေခြင်း အလို့ငှာခေါ်ယူခြင်း မပြုရသေးသော ရင်းနှီးငွေများ အပါအဝင် ဤကုမ္ပဏီ၏ ပစ္စည်းရပ်များ အားလုံး သို့မဟုတ် တစ်စိတ်တစ်ဒေသကို ပေါင်နှံ၍ သော်လည်းကောင်း၊ အပေါင်ပြု၍ သော်လည်းကောင်း သို့မဟုတ် အစုရှယ်ယာများအတွက် ငွေများ တောင်းခံခေါ်ယူ၍ သော်လည်းကောင်း ခွင့်ပြုရန် သို့မဟုတ် သင့်လျော်သည့်အတိုင်း ဆောင်ရွက်ရန်။

(၅) မန်နေဂျာများ၊ အတွင်းရေးမှူးများ၊ အရာရှိများ၊ စာရေးများ၊ ကိုယ်စားလှယ်များနှင့် ဝန်ထမ်းများကိုအမြဲတမ်း၊ ယာယီ သို့မဟုတ် အထူးကိစ္စရပ်များအတွက်ခန့်ထားခြင်း၊ ရပ်စဲခြင်း၊ ဆိုင်းငံ့ခြင်းများအတွက်လည်းကောင်း အဆိုပါ ပုဂ္ဂိုလ်တို့၏တာဝန်များ၊ အာဏာများ၊ လစာငွေများ၊ အခြားငွေကြေးများကို သတ်မှတ်ရာ၌လည်းကောင်း၊ အာမခံပစ္စည်းများ တောင်းခံရာ၌လည်းကောင်း သင့်လျော်သလိုဆောင်ရွက်ရန်၊ ထို့အပြင် အဆိုပါကိစ္စရပ်များအတွက် ကုမ္ပဏီ၏ မည်သည့်အရာရှိကိုမဆို ကိစ္စရပ်အားလုံးကို ဖြစ်စေ၊ တစ်စိတ်တစ်ဒေသကိုဖြစ်စေ ဒါရိုက်တာများ၏ကိုယ်စား ဆောင်ရွက်နိုင်ရေးအတွက် တာဝန်လွှဲအပ်ရန်။

(၆) ဤကုမ္ပဏီ၏ ဒါရိုက်တာတစ်ဦးအား ဒါရိုက်တာရာထူးနှင့် တွဲဖက်၍ မန်နေဂျင်း ဒါရိုက်တာ၊ အထွေထွေ မန်နေဂျာ၊ အတွင်းရေးမှူး သို့မဟုတ် ဌာနခွဲ မန်နေဂျာအဖြစ် ခန့်ထားရန်။

(၇) မည်သည့် အစုရှင်ထံမှမဆို ၎င်းတို့၏ အစုရှယ်ယာများအားလုံးကို ဖြစ်စေ၊ အချို့အဝက်ကိုဖြစ်စေ စွန့်လွှတ်ခြင်းအား သဘောတူညီသောစည်းကမ်းများဖြင့် လက်ခံရန်။

(၈) ဤကုမ္ပဏီက ပိုင်ဆိုင်သော သို့မဟုတ် ပိုင်ဆိုင်ခွင့်ရှိသော သို့မဟုတ် အခြားအကြောင်းများကြောင့်ဖြစ်သော မည်သည့် ပစ္စည်းကိုမဆို ကုမ္ပဏီ၏ကိုယ်စား လက်ခံထိန်းသိမ်းထားရန်အတွက် မည်သည့်ပုဂ္ဂိုလ် သို့မဟုတ် ပုဂ္ဂိုလ်များကိုမဆို ခန့်ထားရန်နှင့် အဆိုပါ ယုံမှတ် အပ်နှံခြင်းများနှင့် ပတ်သက်၍ လိုအပ်သော စာချုပ်စာတမ်းများ ချုပ်ဆို ပြုလုပ်ရန်။

(၉) ဤကုမ္ပဏီ၏ အရေးအရာများနှင့် စပ်လျဉ်း၍ ဤကုမ္ပဏီက ပြုလုပ်သော သို့မဟုတ် ဤကုမ္ပဏီအပေါ် သို့မဟုတ် ဤကုမ္ပဏီ၏ အရာရှိများအပေါ် ပြုလုပ်သော တရားဥပဒေအရ စွဲဆို ဆောင်ရွက်မှုများကို တရားစွဲဆို၊ အရေးယူ၊ ခုခံကာကွယ်ရန် သို့မဟုတ် ခွင့်လွှတ်ရန်၊ ထို့အပြင် ဤကုမ္ပဏီက ရရန်ရှိသော ကြွေးမြီများနှင့် ဤကုမ္ပဏီအပေါ် တောင်းခံသော ကြွေးမြီများနှင့်ပတ်သက်၍ ပေးဆပ်ရန် အချိန်ကာလ ရွှေ့ဆိုင်းခွင့်ပြုခြင်း သို့မဟုတ် နှစ်ဦးနှစ်ဖက် သဘောတူ ကျေအေးခြင်းများ ပြုလုပ်ရန်။

(၁၀) ဤကုမ္ပဏီက ပေးရန်ရှိသော သို့မဟုတ် ရရန်ရှိသော ငွေတောင်းခံခြင်းများကို ဖြန်ဖြေရေး ခုံသမာဓိထံသို့ ဖြေရှင်းရန်အတွက် အပ်နှံရန်အပြင် ဖြန်ဖြေရေး ခုံသမာဓိ၏ ဆုံးဖြတ်ချက်အတိုင်း လိုက်နာဆောင်ရွက်ရန်။

(၁၁) ဤကုမ္ပဏီက ရရန်ရှိသောတောင်းဆိုချက်၊ တောင်းခံချက်များနှင့် ကုမ္ပဏီသို့ပေးရန်ရှိသော ငွေကြေးများအတွက် ပြေစာများ ပြုလုပ် ထုတ်ပေးခြင်း၊ လျှော်ပစ်ခြင်းနှင့် အခြားသောနည်းဖြင့်စွန့်လွှတ်ခြင်းများကို ပြုလုပ်ရန်။

(၁၂) လူမွဲစာရင်းခံရခြင်း၊ ကြွေးမြီး မဆပ်နိုင်ခြင်း ကိစ္စများနှင့် ပတ်သက်၍ ကုမ္ပဏီ၏ကိုယ်စား ဆောင်ရွက်ရန်။

(၁၃) ငွေလွှဲစာတမ်းများ၊ ချက်လက်မှတ်များ၊ ဝန်ခံကတိစာချုပ်များ၊ ထပ်ဆင့် လက်မှတ်ရေးထိုးခြင်းများ၊ လျှော်ပစ်ခြင်းများ၊ ကန်ထရိုက် စာချုပ်များနှင့်စာရွက်စာတမ်းများကို ကုမ္ပဏီ၏ကိုယ်စား မည်သူက လက်မှတ် ရေးထိုးခွင့်ရှိသည်ကို စီစစ်သတ်မှတ်ရန်။

(၁၄) ဒါရိုက်တာများက သင့်လျော်သည်ဟု ယူဆပါက သင့်လျော် လျောက်ပတ်သောနည်းလမ်းများဖြင့် လတ်တလော အသုံးပြုရန် မလိုသေးသော ကုမ္ပဏီပိုင် ငွေများကို အာမခံပစ္စည်း ပါသည်ဖြစ်စေ၊ မပါသည်ဖြစ်စေ ရင်းနှီးမြှုပ်နှံထားရန်နှင့် စီမံခန့်ခွဲထားရန်။ ထို့အပြင် အချိန်ကာလအားလျော်စွာ မြှုပ်နှံထားသောငွေကို ပြန်လည်ရယူရန်နှင့် ပြင်ဆင်ပြောင်းလွဲရန်။

(၁၅) ဤကုမ္ပဏီ၏ အကျိုးအတွက် ငွေကြေး စိုက်ထုတ် ကုန်ကျခံထားသော ဒါရိုက်တာ သို့မဟုတ် အခြားပုဂ္ဂိုလ်များက ကုမ္ပဏီ၏ (လက်ရှိနှင့် နောင်တွင်ရှိမည့်) ပစ္စည်းများကို ဤကုမ္ပဏီ၏ အမည်ဖြင့်ဖြစ်စေ၊ ဤကုမ္ပဏီ၏ ကိုယ်စားဖြစ်စေ ပေါင်နှံခြင်းကို သင့်လျော်သည်ဟု ယူဆပါက ဆောင်ရွက်ခွင့်ပြုရန်။ အဆိုပါ ပေါင်နှံခြင်းဆိုရာ၌ ရောင်းချနိုင်သည့် အာဏာနှင့် အခြားသော သဘောတူညီထားသည့် တရားဝင်သော တူညီချက်များနှင့် ဥပဒေပြဋ္ဌာန်းချက်များပါ ပါဝင်သည်။

(၁၆) ဤကုမ္ပဏီကခန့်အပ်ထားသော မည်သည့်အရာရှိသို့မဟုတ် ပုဂ္ဂိုလ်ကိုမဆို အတိအကျဆောင်ရွက်ခဲ့သည့်လုပ်ငန်း သို့မဟုတ် ဆောင်ရွက်မှုတစ်ခုအတွက် ရရှိသော အမြတ်ငွေမှ ကော်မရှင်ပေးခြင်း သို့မဟုတ် ကုမ္ပဏီ၏ အထွေထွေ အမြတ်အစွန်းမှ ခွဲဝေပေး ခြင်းများ ပြုလုပ်ရန်နှင့် အဆိုပါကော်မရှင်များ၊ အမြတ်များခွဲဝေပေးခြင်း စသည်တို့ကို ဤကုမ္ပဏီ၏လုပ်ငန်းကုန်ကျစရိတ် တစ်စိတ်တစ်ဒေသအဖြစ် သတ်မှတ်ရန်။

(၁၇) ဤကုမ္ပဏီ၏လုပ်ငန်းများ၊ အရာရှိများ ဝန်ထမ်းများနှင့် အစုရှင်များအတွက် ထုတ်ပြန်ထားသော စည်းမျဉ်းများ၊ စည်းကမ်းချက်များ၊ စည်းကမ်းဥပဒေများကို အခါအားလျော်စွာ သတ်မှတ်ခြင်း၊ ပြင်ဆင်ခြင်း၊ ဖြည့်စွက်ခြင်းများ ဆောင်ရွက်ရန်။

(၁၈) ဤကုမ္ပဏီ၏လုပ်ငန်းအတွက် ဤကုမ္ပဏီ၏အမည်ဖြင့်ဖြစ်စေ၊ ဤကုမ္ပဏီ၏ကိုယ်စားဖြစ်စေ လိုအပ်သည်ဟု ယူဆလျှင် ညှိနှိုင်းဆွေးနွေးခြင်းနှင့် ကန်ထရိုက်စာချုပ် ချုပ်ဆိုခြင်းများကို ပြုလုပ်ရန်၊ ဖျက်သိမ်းရန်နှင့် ပြင်ဆင်ရန် အပြင် အဆိုပါ ဆောင်ရွက်ချက် စာချုပ်များနှင့် ကိစ္စရပ်များကိုလည်းကောင်း ၎င်းတို့နှင့် စပ်လျဉ်းသော ကိစ္စရပ်များကို လည်းကောင်း လုပ်ကိုင်ဆောင်ရွက်ရန်။

(၁၉) ဒါရိုက်တာများက သင့်လျော်လျောက်ပတ်သည်ဟု ယူဆပါက ကုမ္ပဏီ၏ စီးပွားရေးလုပ်ငန်းတွင် အကျိုးရှိစေရန်အတွက် မည်သည့် ပြည်တွင်းပြည်ပ ပုဂ္ဂိုလ်၊ စီးပွားရေး အဖွဲ့အစည်း၊ ကုမ္ပဏီ သို့မဟုတ် ဘဏ် သို့မဟုတ် ငွေကြေးအဖွဲ့အစည်းထံမှ မဆို ငွေချေးယူရန်။

အထွေထွေအစည်းအဝေးကြီးများ

၁၅။ ကုမ္ပဏီကိုဥပဒေအရ ဖွဲ့စည်းတည်ထောင်ပြီးသည့်နေ့မှ တစ်ဆယ့်ရှစ်လအတွင်း အထွေထွေသင်းလုံးကျွတ် အစည်းအဝေးကြီးကိုကျင်းပရမည်။ ထို့နောက် ဒါရိုက်တာအဖွဲ့က သတ်မှတ်ပေးသည့် အချိန်နှင့် နေရာများတွင် ပြက္ခဒိန်နှစ်တစ်နှစ်လျှင် အနည်းဆုံးတစ်ကြိမ် (နောက်ဆုံးကျင်းပသည့် အထွေထွေအစည်းအဝေးကြီးနှင့် တစ်ဆယ့်ငါးလထက်မပိုသည့်အချိန်၌) ကျင်းပရမည်။ သင်းလုံးကျွတ် အစည်းအဝေးစတင်၍ လုပ်ငန်းအတွက် ဆွေးနွေးချိန်တွင် အစည်းအဝေးအထမြောက်ရန် သတ်မှတ်သည့် အစုရှင်အရေအတွက် မတက်ရောက်သော မည်သည့်သင်းလုံးကျွတ် အစည်းအဝေးတွင်မဆို လုပ်ငန်းနှင့် ပတ်သက်၍ ဆုံးဖြတ်ဆောင်ရွက်ခြင်းမပြုရ။ ဤတွင်အခြားနည်း သတ်မှတ်ပြဋ္ဌာန်းခြင်းမရှိလျှင် ထုတ်ဝေထားသည့် မ,တည် ရင်းနှီးငွေ အစုရှယ်ယာများ၏ ငါးဆယ်ရာခိုင်နှုန်းထက်မနည်း ပိုင်ဆိုင်ကြသည့် (နှစ်ဦးထက်မနည်းသော) အစုရှင်များ ကိုယ်တိုင်တက်ရောက်လျှင် လုပ်ငန်းကိစ္စအားလုံး ဆောင်ရွက်ရန်အတွက် အစည်းအဝေးအထမြောက်သည့်ဦးရေ ဖြစ်သည်။ အကယ်၍ ကုမ္ပဏီတွင်အစုရှင်အရေအတွက် နှစ်ဦးတည်းသာရှိသည့် ကိစ္စတွင်မူ ထိုနှစ်ဦးတည်းသည်ပင်လျှင် အစည်းအဝေး အထမြောက်ရန် သတ်မှတ်သည့် အရေအတွက်ဖြစ်စေရမည်။

အမြတ်ဝေစုများ

၁၆။ သင်းလုံးကျွတ်အစည်းအဝေးတွင် ဤကုမ္ပဏီ၏ အစုရှင်များအား ခွဲဝေပေးမည့် အမြတ်ဝေစုကို ကြေညာရမည်။ သို့ရာတွင် အမြတ်ဝေစုသည် ဒါရိုက်တာများက ထောက်ခံသော ငွေပမာဏထက် မကျော်လွန်စေရ။ သက်ဆိုင်ရာနှစ်၏ အမြတ်ပမာဏ သို့မဟုတ် အခြားမခွဲဝေရသေးသည့် အမြတ်ပမာဏမှအပ အမြတ်ဝေစုကို ခွဲဝေမပေးရ။

ရုံးဝန်ထမ်းများ

၁၇။ ကုမ္ပဏီသည် လုပ်ငန်းရုံးတစ်ခုကို ဖွင့်လှစ်၍ ဆောင်ရွက်မည်ဖြစ်ပြီး အရည်အချင်း ပြည့်မီသူပုဂ္ဂိုလ်တစ်ဦးအား အထွေထွေမန်နေဂျာအဖြစ် ခန့်အပ်ရန်နှင့် အခြားအရည်အချင်း ပြည့်မီသူများအား ရုံးဝန်ထမ်းများအဖြစ် ခန့်အပ်မည်ဖြစ်သည်။ လစာ၊ ခရီးသွားလာစရိတ်နှင့် အခြားအသုံးစရိတ်များကဲ့သို့သော ဥာဏ်ပူဇော်ခများနှင့် အခကြေးငွေများကို ဒါရိုက်တာအဖွဲ့က သတ်မှတ်မည်ဖြစ်ပြီး ၎င်းသတ်မှတ်ချက်များကို သင်းလုံးကျွတ် အစည်းအဝေးက အတည်ပြုရမည်။ အထွေထွေမန်နေဂျာသည် လုပ်ငန်းရုံး၏ ထိရောက်စွာလုပ်ငန်း လည်ပတ်မှုအားလုံးအတွက် တာဝန်ရှိစေရမည်ဖြစ်ပြီး မန်နေဂျင်း ဒါရိုက်တာအားတာဝန်ခံ၍ ဆောင်ရွက်ရမည်။

ငွေစာရင်းများ

၁၈။ ဒါရိုက်တာများသည် သင့်လျော်သည့် ငွေစာရင်းစာအုပ်များကို အောက်ဖော်ပြပါ သတ်မှတ်ချက်များနှင့်အညီထားသိုထိန်းသိမ်း ဆောင်ရွက်ရမည်။

(၁) ကုမ္ပဏီ၏ ရငွေ၊ သုံးငွေများ၏ ပမာဏနှင့် ၎င်းရငွေ၊ သုံးငွေများ ဖြစ်ပေါ်ခြင်းနှင့် စပ်လျဉ်းသည့် အကြောင်းကိစ္စများ။

(၂) ကုမ္ပဏီ၏ ကုန်ပစ္စည်းများ ရောင်းချခြင်းနှင့် ဝယ်ယူခြင်းများ။

(၃) ဤကုမ္ပဏီ၏ ရရန်ပိုင်ခွင့်နှင့် ပေးရန်တာဝန်များ။

၁၉။ ငွေစာရင်းစာအုပ်အားလုံးကို ဤကုမ္ပဏီ၏ မှတ်ပုံတင်ထားသော လုပ်ငန်းရုံး သို့မဟုတ် ဒါရိုက်တာများက သင့်လျော်သည်ဟု ထင်မြင်ယူဆသော အခြားနေရာတွင် သိမ်းဆည်းထားရမည်ဖြစ်ပြီး၊ ရုံးချိန်အတွင်း၌ ဒါရိုက်တာများက စစ်ဆေးနိုင်ရန် ပြသထားရမည်။

စာရင်းစစ်

၂၀။ စာရင်းစစ်များကို ခန့်အပ်ထားရမည်။ ၎င်းစာရင်းစစ်များ၏ တာဝန်သည် မြန်မာနိုင်ငံ ကုမ္ပဏီများ အက်ဥပဒေ သို့မဟုတ် အခါအားလျော်စွာ ပြင်ဆင်သတ်မှတ်သည့် စည်းမျဉ်း စည်းကမ်းများနှင့် လိုက်လျောညီထွေ ဖြစ်ရမည်။

နို့တစ်စာ

၂၁။ ဤကုမ္ပဏီသည် မည်သည့်အစုရှင်ထံသို့မဆို နို့တစ်စာကို လက်ရောက်ပေးအပ်ခြင်း သို့မဟုတ် နို့တစ်စာပါသော စာကို စာတိုက်ခ ကြိုတင်ပေးထား၍ ၎င်းအစုရှင်ထံ မှတ်ပုံတင်လိပ်စာအတိုင်း စာတိုက်မှတစ်ဆင့် လိပ်မူ ပေးပို့ခြင်းအားဖြင့် ပေးပို့နိုင်သည်။

တံဆိပ်

၂၂။ ဒါရိုက်တာများသည် တံဆိပ်ကို လုံခြုံစွာထိန်းသိမ်းထားရန်အတွက် စီမံဆောင်ရွက်ရမည်။ ထိုတံဆိပ်ကို ဒါရိုက်တာများကကြိုတင်ပေးအပ်ထားသည့် ခွင့်ပြုချက်ဖြင့်မှတစ်ပါး၊ ထို့အပြင် အနည်းဆုံး ဒါရိုက်တာတစ်ဦး ရှေ့မှောက်တွင်မှ တစ်ပါး မည်သည့်အခါမျှ မသုံးရ။ တံဆိပ်ရိုက်နှိပ်ထားသည့် စာရွက်စာတမ်းတိုင်းတွင် ထိုဒါရိုက်တာက လက်မှတ်ရေးထိုးရမည်။

လျော်ကြေး

၂၃။ မြန်မာနိုင်ငံကုမ္ပဏီများ အက်ဥပဒေ ပုဒ်မ ၈၆ (ဂ) တွင် ဖော်ပြပါရှိသည့် ပြဋ္ဌာန်းချက်များ၊ လက်ရှိတရားဝင် တည်ဆဲဥပဒေပြဋ္ဌာန်းချက်များနှင့် မဆန့်ကျင်စေဘဲ ကုမ္ပဏီ၏ ဒါရိုက်တာ၊ စာရင်းစစ်၊ အတွင်းရေးမှူး သို့မဟုတ် အခြားအရာရှိ တစ်ဦးဦးမှာ မိမိ၏ တာဝန် ဝတ္တရားများကို ဆောင်ရွက်ရာ၌ဖြစ်စေ၊ ထိုတာဝန် ဝတ္တရားများနှင့် စပ်လျဉ်း၍ဖြစ်စေ ကျခံခဲ့ရသည့်စရိတ်များ၊ တောင်းခံငွေများ၊ ဆုံးရှုံးငွေများ၊ ကုန်ကျငွေများနှင့် ကြွေးမြီတာဝန်များ အတွက် ကုမ္ပဏီထံမှ လျော်ကြေး ရထိုက်ခွင့်ရှိစေရမည်။

ဖျက်သိမ်းခြင်း

၂၄။ ကုမ္ပဏီ၏ အထွေထွေအစည်းအဝေး ဆုံးဖြတ်ချက်ဖြင့် ကုမ္ပဏီအား ဖျက်သိမ်းနိုင်သည်။ ယင်းသို့ ဖျက်သိမ်းရာ တွင် မြန်မာနိုင်ငံကုမ္ပဏီများ အက်ဥပဒေများနှင့် ယင်းဥပဒေများအား အခါအားလျော်စွာ ပြင်ဆင်ပြောင်းလဲထားသည့် တရားဥပဒေများတွင် ပါဝင်သည့် စည်းမျဉ်းများအတိုင်း လိုက်နာပြုလုပ်ရမည်။

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အောက်တွင် အမည်၊နိုင်ငံသား၊ နေရပ်နှင့် အကြောင်းအရာစုံလင်စွာပါသော ဇယားတွင် လက်မှတ်ရေး ထိုးသူ ကျွန်ုပ်တို့ကိုယ်စီကိုယ်ငှသည် ဤသင်းဖွဲ့မှတ်တမ်းအရ ကုမ္ပဏီတစ်ခုဖွဲ့စည်းရန် လိုလားသည့် အလျောက် ကျွန်ုပ်တို့ ၏အမည်အသီးသီးနှင့် ယှဉ်တွဲ၍ပြထားသော အစုရှယ်ယာများကို ကုမ္ပဏီ ၏ မတည်ရင်းနှီးငွေတွင် ထည့်ဝင်ရယူကြရန် သဘောတူကြပါသည်။

စဉ်	အစုထည့်ဝင်သူများ၏ အမည်၊နေရပ်လိပ်စာနှင့် အလုပ်အကိုင်	နိုင်ငံသားနှင့် အမျိုးသား မှတ်ပုံတင်အမှတ်	ဝယ်ယူသော အစုရှယ်ယာ ဦးရေ	ထိုးမြဲလက်မှတ်
1	DENSO INDUSTRY ASIA CO., LTD. Flat 10, 15F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. Hongkong Represented by: Mr. Kazubumi FUSE 2766-17, Izumi-Cho, Izumi-Ku, Yokohama- City, Kanagawa, Japan.	Incorporated in Hongkong I.C No. 62154019-000-10 -13-3 Hongkong P.P No. TH4441171	79,999 shares	布施和文
2	DENSO INDUSTRY CO., LTD. 2-12-9, Shin-yokohama, Kohoku-ku, Yokohama City, Japan Represented by: Mr. Tomohiko ASO (Nominee Shareholder) 4-27-5, Kaminoge, Setagaya-Ku, Tokyo, Japan	Incorporated in Japan I.C No. 0200-01-086081 Japan P.P No. TK9679241	1 share	麻生智彦

ရန်ကုန်။ နေ့စွဲ။ ၂၀၁၄ ခုနှစ်။ ၊ ရက်။

အထက်ပါ လက်မှတ်ရှင်များသည် ကျွန်ုပ်တို့၏ ရှေ့မှောက်တွင် လက်မှတ်ရေးထိုးကြပါသည်။

San San Yi (P-361)
B.Com.(Q.) C.P.A ...

(1)

THE MYANMAR COMPANIES ACT

PRIVATE COMPANY LIMITED BY SHARES

Memorandum Of Association

OF

DENSO INDUSTRY YANGON LIMITED

I. The name of the Company is DENSO INDUSTRY YANGON LIMITED.

II. The registered office of the Company will be situated in the Union of Myanmar.

III. The objects for which the Company is established are as on the next page.

IV. The liability of the members is limited.

V. The authorised capital of the Company is US$ 2,000,000/-(United States Dollars Two Million Only) divided into (200,000) shares of US$ 10/ - (United States Dollars Ten Only) each, with power in General Meeting either to increase, reduce or alter such capital from time to time in accordance with the regulations of the Company and the legislative provisions for the time being in force in this behalf.

6. The Objective For Which The company is established are

Denso Industry Yangon Ltd. will carry out the following services either by itself or through a foreign or a local partner;

(1) Manufacturing and Selling of electrical parts (wire harness);
(2) Providing services for the above stated activities;
(3) Importing materials for the above mentioned business;
(4) Exporting manufactured goods from above mentioned business; and
(5) Other related services incidental to the above stated activities.

7. To borrow money for the benefit of the Company's business from any person, firm, company, bank or financial organization in the manners that the Company shall think fit.

PROVISO: - Provided that the Company shall not exercise any of the above objects whether in the Union of Myanmar or elsewhere, save in so far it may be entitled so as to do in accordance with the Laws, Orders and Notifications in force from time to time and then only subject to such permission and or approval as may be prescribed by the Laws, Orders and Notifications of the Union of Myanmar for the time being in force.

We, the serveral persons, whose names, nationalities, addresses and descriptions are subscribed below, are desirous of being formed into a Company in pursuance of this Articles of Association , and respectively agree to take the number of shares in the capital of the Company set opposite our respective names.

Sr. No.	Name, Adress and Occupation of Subscribers	Nationality & N.R.C. No.	Number of Shares taken	Signatures
1	DENSO INDUSTRY ASIA CO., LTD. Flat 10, 15F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. Hongkong Represented by: Mr. Kazubumi FUSE 2766-17, Izumi-Cho, Izumi-Ku, Yokohama- City, Kanagawa, Japan.	Incorporated in Hongkong I.C No. 62154019-000-10 -13-3 Hongkong P.P No. TH4441171	79,999 shares	布施和文
2	DENSO INDUSTRY CO., LTD. 2-12-9, Shin-yokohama, Kohoku-ku, Yokohama City, Japan Represented by: Mr. Tomohiko ASO (Nominee Shareholder) 4-27-5, Kaminoge, Setagaya-Ku, Tokyo, Japan	Incorporated in Japan I.C No. 0200-01-086081 Japan P.P No. TK9679241	1 shares	麻生智彦

Yangon. Dated the day of , 2014

It is hereby certified that the persons mentioned above put their signatures in my presence.

San San Yi (P-361)

(4)

THE MYANMAR COMPANIES ACT

PRIVATE COMPANY LIMITED BY SHARES

Articles of Association

OF

DENSO INDUSTRY YANGON LIMITED

❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖

1. The regulations contained in Table 'A' in the First Schedule to the Myanmar Companies Act shall apply to the Company save in so far as such regulation which are inconsistent with the following Articles. The compulsory regulations stipulated in Section 17 (2) of the Myanmar Companies Act shall always be deemed to apply to the Company.

PRIVATE COMPANY

2. The Company is to be a Private Company and accordingly following provisions shall have effect:-

   (a) *The number of members of the Company, exclusive of persons who are in the employment the Company, shall be limited to fifty.*

   (b) *Any invitation to the public to subscribe for any share or debenture or debenture stock of the Company is hereby prohibited.*

CAPITAL AND SHARES

3. The authorised capital of the Company is US$ 2,000,000/- United State Dollars Two Million Only) divided into (200,000) shares of US$ 10/- (United State Dollars Ten Only) each, with power in General Meeting either to increase, reduce or alter such capital from time to time in accordance with the regulations of the Company and the legislative provisions for the time being in force in this behalf.

4. Subject to the provisions of the Myanmar Companies Act the shares shall be under the control of the Directors, who may allot or otherwise dispose of the same to such persons and on such terms and conditions as they may determine.

5. The certificate of title to share shall be issued under the Seal of the Company, and signed by the General Manager or some other persons nominated by the Board of Directors. If the share certificate is defaced, lost or destroyed, it may be renewed on payment of such fee, if any, and on such terms, if any, as to evidence and indemnity as the Directors may think fit. The legal representative of a deceased member shall be recognised by the Directors.

6. The Directors may, from time to time make call upon the members in respect of any money unpaid on their shares, and each member shall be liable to pay the amount of every call so made upon him to the persons, and at the times and places appointed by the Directors. A call may be made payable by instalments or may be revoked or postponed as the Directors may determine.

DIRECTORS

7. Unless otherwise determined by a General Meeting the number of Directors shall not be less than (2) and not more than (5).

   The First Directors shall be:-
   1. Mr. Takashi MISHIMA
   2. Mr. Kazubumi FUSE

8. The Directors may from time to time appoint one of their body to the office of the Managing Director for such term and at such remuneration as they think fit and he shall have all the powers delegated to him by the Board of Directors from time to time.

9. The qualification of a Director shall be the holding of at least (-) shares in the Company in his or her own name and it shall be his duty to comply with the provision of Section (85) of the Myanmar Companies Act.

10. The Board of Directors may in their absolute and uncontrolled discretion refuse to register any proposed transfer of shares without assigning any reason.

PROCEEDINGS OF DIRECTORS

11. The Director may meet together for the despatch of business, adjourn and otherwise regulate their meeting as they think fit and determine the quorum necessary for the transaction of business. Unless otherwise determined, two shall form a quorum. If any question arising at any meeting the Managing Director's decision shall be final. When any matter is put to a vote and if there shall be an equality of votes, the Chairman shall have a second or casting vote.

12. Any Director may at any time summon a meeting of Directors.

13. A resolution in writing signed by all the Directors shall be as effective for all purposes as a resolution passed out at meeting of the Directors, duly called, held and constituted

POWERS AND DUTIES OF DIRECTORS

14. Without prejudice to the general power conferred by Regulation 71 of the Table "A" of the Myanmar Companies Act, it is hereby expressly declared that the Directors shall have the following powers, that is to say power:-

(1) To purchase or otherwise acquire for the Company any property, rights or privileges which the Company is authorized to acquire at such price, and generally on such terms and conditions as they think fit; also to sell, lease, abandon or otherwise deal with any property, rights or privileges to which the Company may be entitled, on such terms and conditions as they may think fit.

(2) To raise, borrow or secure the payment of such sum or sums in such manner and upon such terms and conditions in all respects as they think fit and in particular by the issue of debentures or debenture stocks of the Company charged upon all or any part of the property of the Company (both present and future) including its uncalled capital for the time being.

(3) At their discretion, to pay for any rights acquired or services rendered to the Company, either wholly or partially in cash or in shares, bonds, debentures or other securities of the Company and any such shares may be issued either as fully paid up or with such amount credited as paid up thereon as may be agreed upon; and any such bonds, debentures or other securities may be either specifically charged upon all or any part of the property of the Company and its uncalled capital or not so charged.

(4) To secure the fulfilment of any contract or engagement entered into by the Company by mortgage or charge upon all or any of the property of the Company and its uncalled capital for the time being or by granting calls on shares or in such manner as they may think fit.

(5) To appoint at their discretion, remove or suspend such Managers, Secretaries, Officers, Clerks, Agents and Servants for permanent, temporary or special services as they may from time to time think fit and to determine their duties and powers and fix their salaries or emoluments and to require security in such instances in such amount as they think fit and to depute any officers of the Company to do all or any of these things on their behalf.

(6) To appoint a Director as Managing Director, General Manager, Secretary or Departmental Manager in conjunction with his Directorship of the Company.

(7) To accept from any member on such terms and conditions as shall be agreed on the surrender of his shares or any part thereof.

(8) To appoint any person or persons to accept and hold in trust for the Company any property belonging to the Company or in which it is interested or for any other purposes and to execute and do all such deeds and things as may be requisite in relation to any such trust.

(9) To institute, conduct, defend of abandon any legal proceedings by or against the Company or its officers or otherwise concerning the affairs of the Company and also to compound and allow time for payment or satisfaction of any debts due to or of any claims and demands by or against the Company.

(10) To refer claims and demands by or against the Company to arbitration and to observe and perform the awards.

(11) To make and give receipts, releases and other discharges for money payable to the Company and for the claims and demands of the Company.

(12) To act on behalf of the Company in all matters relating to bankruptcy and insolvency.

(13) To determine who shall be entitled to sign bills of exchange, cheques, promissory notes, receipts, endorsements, releases, contracts and documents for or on behalf of the Company.

(14) To invest, place on deposit and otherwise deal with any of the moneys of the Company not immediately required for the purpose thereof, upon securities or without securities and in such manners as the Directors may think fit, and from time to time vary or realize such investments.

(15) To execute in the name and on behalf of the Company in favour of any Director or other person who may incur or be about to incur any personal liability for the benefit of the Company, such mortgages of the Company's property (present and future) as they think fit and any such mortgage may contain a power of sale and such other powers, covenants and provisions as shall be agreed on.

(16) To give any officer or other person employed by the Company a commission on the profits of any particular business or transaction or a share in the general profit of the Company and such commission or share of profit shall be treated as part of the working expenses of the Company.

(17) From time to time, to make, vary and repeal bye-laws for the regulation of the business of the Company, the officers and servants or the members of the Company or any section thereof.

(18) To enter into all such negotiations and contracts and rescind and vary all such contracts and execute and do all such acts, deeds and things in the name and on behalf of the Company as they may consider expedient for or in relation to any of the matter aforesaid or otherwise for the purposes of the Company.

(19) To borrow money for the benefit of the Company's business from any person, firm or company or bank or financial organization of local and abroad in the manner that the Directors shall think fit.

GENERAL MEETINGS

15 A general meeting shall be held within eighteen months from the date of its incorporation and thereafter at least once in every calendar year at such time (not being more than fifteen months after the holding of the last preceding general meeting) and places as may be fixed by the Board of Directors. No business shall be transacted at any general meeting unless a quorum of members is presented at the time when the meeting proceeds to business, save as herein otherwise provided Member holding not less than 50 percent of the issued shares capital (not less than two members) personally present, shall form a quorum for all purposes. And if and when in the case of there are only two, number of members in the Company, those two members shall form a quorum.

DIVIDENDS

16. The Company in general meeting may declare a dividend to be paid to the members, but no dividend shall exceed the amount recommended by the Directors. No dividends shall be paid otherwise than out of the profits of the year or any other undistributed profits.

OFFICE STAFF

17. The Company shall maintain an office establishment and appoint a qualified person as General Manager and other qualified persons as office staffs. The remunerations and allowances such as salaries, travelling allowances and other expenditures incidental to the business shall be determined by the Board of Directors, and approved by the general meeting. The General Manager shall be responsible for the efficient operation of the office in every respect and shall be held accountable at all times to the Managing Director.

ACCOUNTS

18. The Directors shall cause to be kept proper books of account with respect to:-
   (1) all sums of money received and expended by the Company and the matters in respect of which the receipts and expenditures take place;
   (2) all sales and purchases of goods by the Company;
   (3) all assets and liabilities of the Company.

19. The books of account shall be kept at the registered office of the Company or at such other place as the Directors shall think fit and shall be opened to inspection by the Directors during office hours.

AUDIT

20. Auditors shall be appointed and their duties regulated in accordance with the provisions of the Myanmar Companies Act or any statutory modifications thereof for the time being in force.

NOTICE

21. A notice may be given by the Company to any member either personally or sending it by post in a prepaid letter addressed to his registered address.

THE SEAL

22. The Directors shall provide for the safe custody of the Seal, and the Seal shall never be used except by the authority of the Directors previously given, and in the presence of one Director at least, who shall sign every instrument to which the Seal is affixed.

INDEMNITY

23. Subject to the provisions of Section 86 (C) of the Myanmar Companies Act and the existing laws, every Director, Auditor, Secretary or other officers of the Company shall be entitled to be indemnified by the Company against all costs, charges, losses, expenses and liabilities incurred by him in the execution and discharge of the duties or in relation thereto.

WINDING-UP

24. Subject to the provisions contained in the Myanmar Companies Act and the statutory modification thereupon, the Company may be wound up voluntarily by the resolution of General Meeting.

❖ ❖ ❖ ❖

We, the serveral persons, whose names, nationalities, addresses and descriptions are subscribed below, are desirous of being formed into a Company in pursuance of this Articles o Association , and respectively agree to take the number of shares in the capital of the Compar; set opposite our respective names.

Sr. No.	Name, Adress and Occupation of Subscribers	Nationality & N.R.C. No.	Number of Shares taken	Signatures
1	DENSO INDUSTRY ASIA CO., LTD.	Incorporated in Hongkong	79,999 shares	
	Flat 10, 15F, Shatin Galleria, 18-24 Shan Mei Street, Fotan, Shatin, N.T. Hongkong	I.C No. 62154019-000-10 -13-3		
	Represented by: Mr. Kazubumi FUSE			布施和文
	2766-17, Izumi-Cho, Izumi-Ku, Yokohama- City, Kanagawa, Japan.	Hongkong P.P No. TH4441171		
2	DENSO INDUSTRY CO., LTD.	Incorporated in Japan	1 share.	
	2-12-9, Shin-yokohama, Kohoku-ku, Yokohama City, Japan	I.C No. 0200-01-086081		
	Represented by: Mr. Tomohiko ASO (Nominee Shareholder)	Japan P.P No. TK9679241		麻生智宏
	4-27-5, Kaminoge, Setagaya-Ku, Tokyo, Japan			

Yangon. Dated the day of , 2014

It is hereby certified that the persons mentioned above put their signatures in my presence.

San San Yi (P-361

Fire Protection Plan (Denso Industry Yangon Limited)

1. Entitlement to and duties of a management entitlement to person and the fire marshal (management entitlement to person)

   1 The management entitlement to person shall take all responsibility for a fire prevention administrative task in the company.

   2 The management entitlement to person elects a person having the authority that I am in an administrative or supervision-like position and can accomplish a fire prevention administrative task appropriately fire marshal and must perform a fire prevention administrative task.

   3 When fire marshal makes a firefighting plan or I change it, the management entitlement to person must give necessary instructions.

   4 When the imperfect defects such as facilities for imperfect point and firefighting in the fire prevention of the building are discovered, the management entitlement to person must repair it immediately.

(Fire Administrator)

The fire marshal shall conduct the next affairs with all authority about the practice of this firefighting plan.

(1) Formation and duty allotment of the self-defense fire station organization
(2) Enforcement and maintenance of the voluntary inspection in the fire prevention
(3) The check such as facilities for firefighting and the call and maintenance
(4) Fire prevention, maintenance of refuge facilities
(5) Appropriate management of the seating capacity
(6) Enforcement of the education that is necessary in the fire prevention for employees
(7) Enforcement of the training of fire extinguishing, a report and the refuge
(8) Communication with the firefighting organization
(9) A call during the construction and other fire use or supervision of the handling
(10) Reports to a management entitlement to person
(11) Promotion of preventive measures against fire prevention
(12) Measures for the large-scale earthquake
(13) Making and well-known thorough fire prevention management schedule for the employee
(14) Others

2. Communication with the firefighting organization

   The management entitlement to person reports the next duties to the firefighting organization and I report it and shall contact me.

Duties	Report, Notice & Emergency Contact	Practitioner
Fire administrator appointed Out (dismissal) notice	When established fire administrator, or shall apply to the dismissal of this	management entitlement to person
Fire planning	When you create a fire plan	

(Change) created	When there is a change of the following matters: ・change of fire administrator appointed or management's title ・Significant Changes for firefighting organization ・Significant changes in matters relating to maintenance of the structure of the fire prevention applications change, extension, renovation, inspection of fire fighting equipment due makeover, etc., development, and maintenance of shelters ・change the contents of the delegate a part of fire management business	Fire administrator
Contact of self-defense fire drills	When trying to carry out firefighting training	
Release approval of prohibited acts	Where bring risk smoking article, or the use of an open flame is prohibited, when attempting these acts (However, after confirmation of fire management and administrator's title)	Management's title Fire administrator Party
Fire-fighting equipment such as inspection results	After the fire administrator has confirmed the contents of the report once a year (3 years), was carried out comprehensive inspections fire administrator in attendance	Fire administrator
Others	Relating to various equipment, including buildings and, when you try to install or modify	Management's title Fire administrator

3. I set as shown in the table below matters all employees and duties of each person listed in the preceding paragraph should be aware of.

	Mission of the person in charge
Fire Protection administrator	・Chief Supervisor of fire management business ・Supervision of fire origin to the person in charge and fire-safety officer
Fire Protection Supervisor	・Supervision of fire origin and chief responsibility of fire prevention in charge zone ・Assistant fire administrator
Fire Protection Assistant Supervisor	・Implementation of voluntary inspections in charge zone, fire safety check of facilities and equipment during an earthquake in particular, confirmation of the earthquake stockpile ・Reporting of the status of confirmation to fire administrator and fire-safety officer
Notes of employees, etc.	
During work	1 Around the stairs in the building and location of the indoor fire hydrant and fire extinguisher, passage, such as a doorway, I do not put an article. 2 In the vicinity of the fire door, I do not put an article to be an obstacle to the closure. 3 Areas near fire use equipment and instruments, not place you are organized, burns. 4 Enforcement of the confirmation of the disposal of the fire. 5 Smoking in the specified location 6 Smoking deterrent to customers who are smoking in non-smoking area 7 Do not put those burning corridor to be a blind spot, Fire escape, and toilet.

During work	8 You do not bring dangerous articles on fire prevention, such as paint thinner or. 9 When using hazardous materials, to obtain the approval of the fire administrator before. 10 When abnormal situation or discover the abnormal situation occurs, I will contact the fire administrator immediately.
After work	1 Put butts smoking area, check the installation of trash in the passage. Butts are disposed of to cover with water filling container of non-flammable 2 Organized inside and outside of the building for the arson prevention. It is not issued in time except that flammable items such as cardboard boxes and dust was determined 3 Locking of each room and switch closure confirmation of fire use facilities and equipment 4 When abnormal situation or discover the abnormal situation occurs, I will contact the fire administrator immediately.

4. Emergency drills, etc.

(Implementation timing, etc. of disaster prevention education)

The disaster education, it is assumed that the embodiment in accordance with the classification below.

Target	Time of Practice	Practitioner / No. of Practice	(A)	(B)	(C)
Fire-Fighting Personnel	At employment, at any time	Every five years each	○		
	Takeover time	Whenever necessary	○		
New Employee	At employment	Once	○		
Existing Employee	July	Annually	○		
	During morning assembly	Whenever necessary		○	○
Temporary Staff	At employment	Once	○		
	During morning assembly	Whenever necessary		○	○
Part-time Staff	At employment	Once	○		
	During morning assembly	Whenever necessary		○	○

Remarks: (A) - Fire Administrator

(B) - Fire Protection Supervisor

(C) - Fire Protection Assistant Supervisor

Yours truly,

For and on behalf of

DENSO INDUSTRY . . YANGON LIMITED

Mr. Takashi MISHIMA

Authorized Person

Summary

Denso Industry Asia Co. Ltd., has planned to establish a manufacturing for wire harness on CMP basic in Shwe Lin Ban Industrial Zone, Hlaingtharyar Township, Yangon Region, Myanmar. The finished products would be distributed to local and international market.

This Initial Environmental Examination (IEE) report is prepared to comply with the Environmental Conservation Law (2012) enacted by Ministry of Environmental Conservation and Forestry, Government of the Republic of the Union of Myanmar.

As the manufacturing activities are proposed to be facilitated in the specified industrial area, there are no environmentally sensitive locations in and around the project site. The potential environmental and social impacts as identified for the proposed project activities as part of the IEE have revealed that the impacts are largely of generic construction related impacts.

For all the construction related impacts, environmental mitigation and management measures are integrated into the IEE report. An environmental monitoring plan to monitor the effectiveness of the mitigation /management measures is also incorporated as part of the IEE.

The construction activities and operation of the present industry does not affect the soils and air quality. However, indiscriminate dumping of solid waste can destroy the soil structure and soil fertility over time which can retard the plant growth, leading to environmental degradation.

No wildlife inhabits within the study area which is occupied by human residences, related buildings and infrastructures. A few bird species, mostly crow, sparrow and pigeon are fairly common, in addition to some snakes.

The identification and evaluation of potential environmental and social impacts arising from the proposed factory have been carefully conducted by considering the activities of proposed project versus current social and environmental conditions during construction and subsequent operational period.

Owing to the location, nature of project, the significant level of impacts are low as long as recommended mitigation measures are effectively and properly implemented and managed.

The industrial area has been established with the purpose of extending industrial infrastructure by Yangon Regional Government. Since there is no household inside the compound, relocation and resettlement processes are not involved in this project. The factory land in the industrial zone has been arranged by 50-year-lease-basis from the regional government. For that reason, there is no project affected people (PAP) and socio-economic impacts on indigenous people cause by the proposed project.

The IEE carried out for the proposed factory project shows that the proposed sub-components will result in net environmental benefits, and any adverse environmental impact can be addressed through proper location, planning, and design of the proposed subproject; control of construction activity and

mitigation measures. The Environment Management Plan (EMP) provides for mitigation of all identified impacts and the contract clauses for the environmental provisions shall be part of the civil works contracts.

The proposed project will bring a positive impact to the local people for higher chance of job opportunity. Since the investment will generate to earn foreign exchange US$ 800,000 - 2million into Myanmar and employing 1200 workers at lifelong job secured work place operating under international standards.

According to Asia Development Bank (ADB) classification, present project is included in the **Category B** which requires an initial environmental examination (IEE). The environmental consultant teams from Resource and Environment Myanmar Co. Ltd. (REM) has already conducted the Initial Environmental Examination (IEE) and no further action like Environmental Impact Assessment (EIA) is necessary. The project proponent has committed that they will be using regulation, measures and standards which are being utilized in **Sonny Inc.** (i.e., Main Company based in Japan) for environmental conservation and safety.

CHAPTER 1 INTRODUCTION

1.1 Background

The project proponent, Denso Industry Asia Co. Ltd., is establishing 100 % foreign Investment from Japan for manufacturing of electric wire harness (cables) in used for Television, DVD, Digital Camera, Computer, TV Game, Video Camera in Shwe Lin Ban industrial area in Yangon Region, Myanmar. The company is one of the subsidiaries of Sonny Inc., from Japan, which is a leading manufacture for all kind of electrical and telecommunication products and accessories having subsidiaries in other countries and market to different part of the world. The company is investing **US$ 800,000** in Myanmar which will generate to earn foreign exchange US$ 2million/ year into the country employing 1200 workers at lifelong job secured work place by operating under international standards.

Resource and Environment Myanmar (REM) has been commissioned by the project proponent to conduct Initial Environmental Examination (IEE) and Environmental Management Plan (EMP) for the proposed project in accordance with the existing Environmental Law, 2012, and the Environmental Impact Assessment regulations which is going to be enacted by the Parliament soon.

1.2 Scope of work

As of October 2013, there is no detailed legal process of the Environmental Impact Assessment (EIA) and Initial Environmental Examination (IEE) in Myanmar. However, Ministry of Environmental Conservation and Forestry (MOECAF) has been drafting the EIA Procedures which is defined detailed legal process regarding preparation of EIA and IEE report, Environmental Management Plan (EMP), public involvement, approval of EIA report by MOECAF, and stakeholder meeting, and monitoring process after approval of EIA/IEE report. IEE Type Project means a Project judged by the Ministry to have some adverse impacts, but of lesser degree and/or significance than those for EIA Type Projects.

In addition, this project is classified as B category of ADB Guidelines for Environmental and Social Considerations. ADB categorize the project as four type, A, B, C, and FI. Category A project is the project which is likely to have significant adverse impacts on the environment and society and required with study of EIA level. Category B project is the project whose potential adverse impacts on the

environment and society are less adverse than those of Category A projects and required with study of IEE level. Resource and Environment Myanmar Co. Ltd. has conducted environmental baseline survey in the project area on third week of April 2014 and recorded the existing condition of physical, ecological and social aspects of environment before the factory is commenced in operation. Based on the environmental baseline data, the anticipated potential impacts are identified and then the mitigation measures for the identified impacts are formulated. Base on the mitigation measures for each type of impact, the environmental management plan and monitoring plan are proposed in this Initial Environmental Examination (IEE) report.

1.3 Location of the proposed project site

The proposed factory is located at Plot No.240 in the industrial area of Shwe Linn Ban Area in Hlaingtharya Township in Yangon, about 1.88 km from the South West of Shwepyithar Bridge and 1.31 km to the East of Hlaing River. The current condition of infrastructures in the project site are shown in Figure 1.3-1.

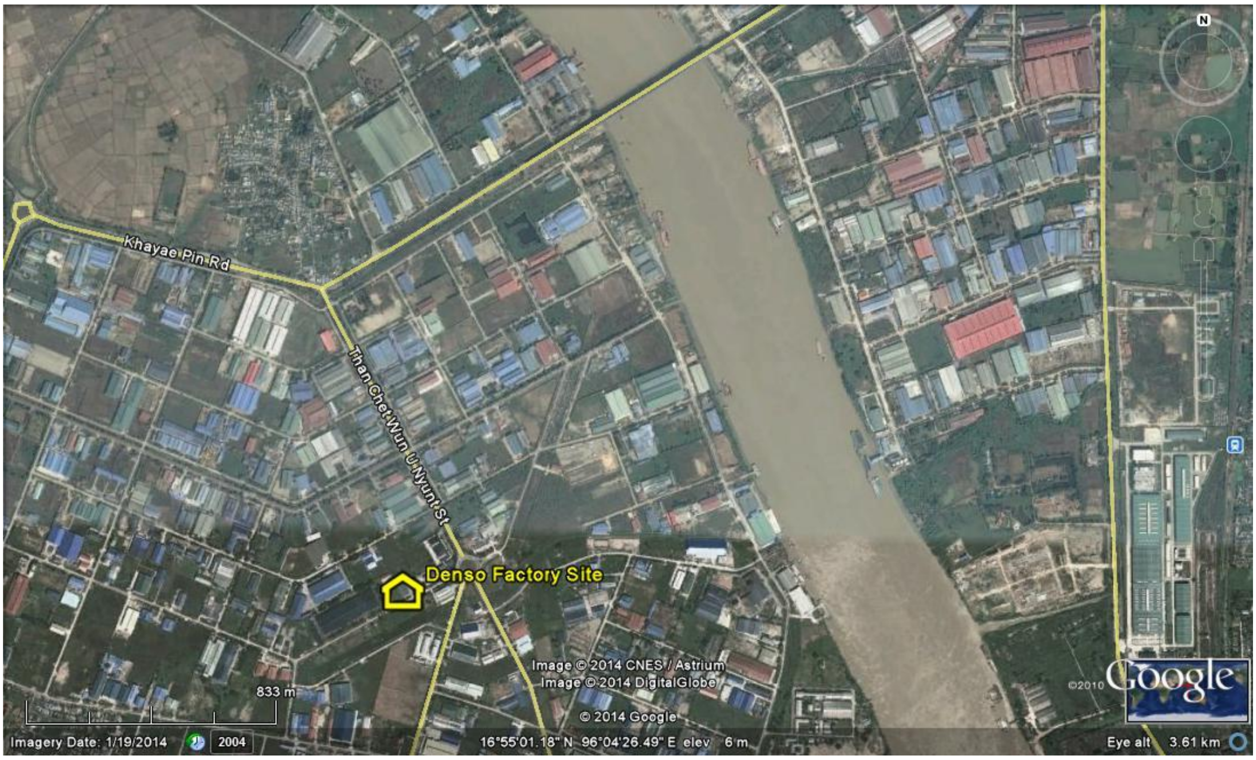


Figure 1.3-1 Location of the proposed project site in Shwe Lin Ban Industrial area, Hlaingtharya Township, Yangon Region, Myanmar



Figure 1.3-2 Location of the factory site shown in yellow boundary in the Shwe Lin Ban Industrial area of Yangon Region



Figure 1.3-3 Landscape of the factory site in Shwe Lin Ban Industrial area



Figure 1.3-4 Current condition of infrastructures observed in the project site.

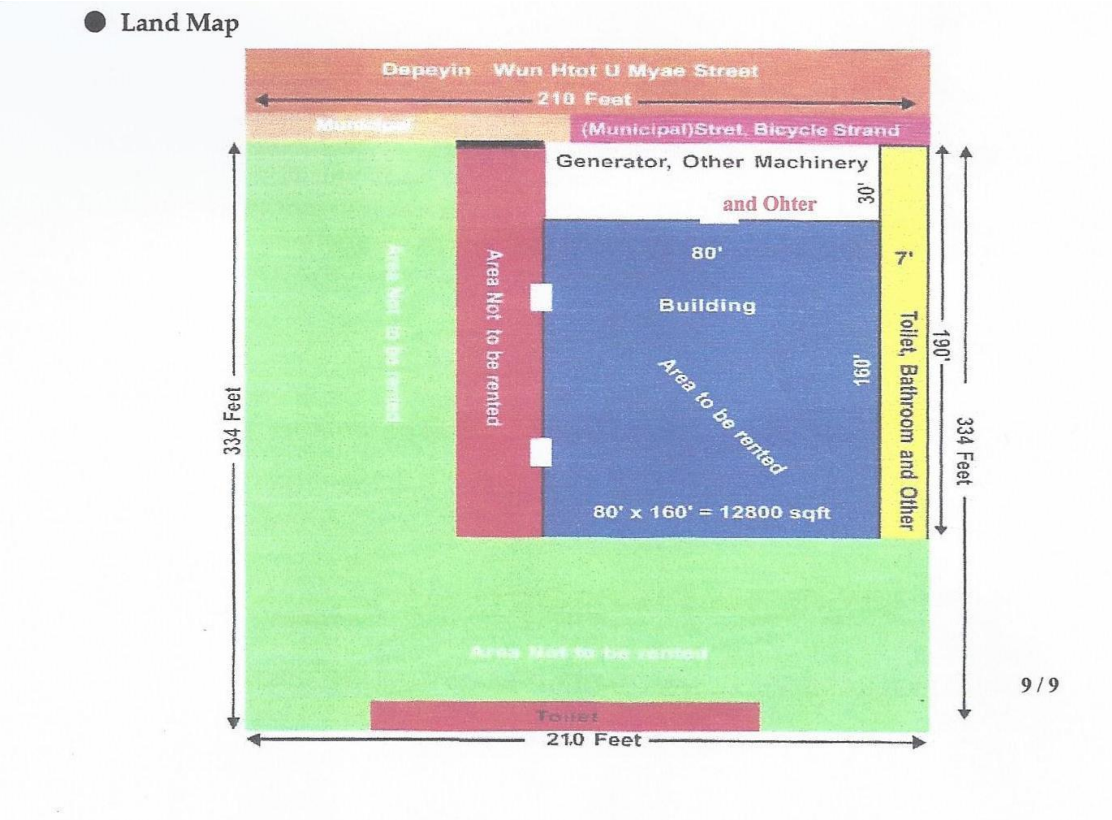


Figure 1.3-5 Floor plan of the project site

1.4 Project Description

The detailed description of the proposed project as described in the documents as provided by the project proponent are summarized in Table 1.4-1.

Table 1.4-1 Detailed description of the project

The project proponent	**Denso Industry Asia Co. Ltd.**
Type of project	Factory for manufacturing of all kinds of wire harness(cables) in used for Television, DVD, Digital Camera, Computer, TV Game, Video Camera
Type of Investment	100 % investment from Japan, a subsidiary of Sonny from Japan, investing **US$ 800000**
The representative of project proponent	• Mr. Mishima Takashi (General manager, Denso Industry Asia Co., Ltd.), Email: mishima_t@denso-k.co.jp
Project Location and size	Plot No.240, Shwe Linn Ban Industrial Zone, Hlaingtharya Township, Yangon Region, Myanmar Area: 0.3 acre
Type of land **Owner of land**	Industrial zone Yangon Region Government
Total area of buildings	48900 sq-meter
Project Facilities **Factory**	**Floor Areas** 1 x 12800 sq. meter
Number of employee	1200 persons from local (for 1^{st} year)
Product	Appendix- 1
Environmental Consultant	**Resource and Environment Myanmar Co. Ltd.** B-702/401 DeltaPlazaBuilding, Shwegondaing Rd., Bahan, Yangon. MYANMAR, Tel: (959) 7301 3448; Fax: (951) 552901; www.enviromyanmar.net
List of Environmental Consultants in REM and the respective fields of expertise	1. U Soe Thura Tun (Principal Consultant, Environmental Management)

	2. U Zaw Naing Oo (Principal Consultant, Environmental Geology) 3. Daw Khin Ohnmar Htwe (Principal Consultant, Social Impact Assessment) 4. U Win Naing Tun (Principal Consultant, Cultural and Legal framework) 5. U Ngwe Moe (Principal Consultant, Health, Safety and Environment)

1.5 Denso Industry Asia Co. Ltd.

Trading partners of Denso Industry Group are no longer confined to Japan and China, and are extending throughout the Southeast Asia. In order to enhance Customers' Satisfaction, there is a necessity to establish another Manufacturing Base other than China.

Field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc. since 2010. The final decision was Myanmar, where our business can achieve rapid development.

- High-quality Labour Force
- Positive Attitude of Improvement on Infrastructure, Logistics, Investment Promotion and etc.
- Enthusiasm in Unifying the System of Tax and Legislation between Public and Private Sectors.

The quality control documents are listed in Appendix-2.

MYANMAR INVESTMENT DETAILS

- Facilities Investment (electronic component processing Large-Scaled Machinery)

- Human Resources Investment (Dispatch of Japanese Technician)

- Capital investment (USD800,000 , USD2,000,000 authorized)

- Environmental Investment (ISO, Systematization of environmental regulations)

- Education Investment (Training in Japan)

SCHEDULE OF EXPANSION INTO MYANMAR

- January, 2014 - Factory Contract (Shwe Lin Ban)

- February, 2014 - MIC Application

- June, 2014 - Start of Facilities Import

- July, 2014 - Start of Material Import

- August, 2014 - Start of Operation

- September, 2014 - Start of Product Export

List of labour

Unit(no. of people)

	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year	9th year	10th year
Affiliation	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Labour	50	180	280	330	380	430	500	650	700	800
Manager	2	2	2	2	2	2	2	2	2	2
Interpretation	1	1	1	2	2	2	2	3	3	3
Production department head	1	1	1	1	1	1	1	1	1	1
Engineering department head	1	1	1	1	1	1	1	1	1	1
Production Control deparment head	1	1	1	1	1	1	1	1	1	1
QC deparment head	1	1	1	1	1	1	1	1	1	1
Senior staff		5	13	15	15	15	20	23	25	25
Account department	1	2	2	2	2	2	2	2	2	2
Administration	1	1	2	2	2	3	4	5	5	5
Purchase/Declaration department	1	2	3	3	3	4	4	5	5	6
Cleaning Staff	1	2	2	2	2	3	3	4	4	5
Total	61	199	309	362	412	465	541	698	750	852
Direct employees Mgr ratio	12.9%	6.5%	6.8%	6.9%	6.0%	5.4%	5.5%	5.0%	4.9%	4.3%
Indirect employees ratio	6.5%	3.5%	2.9%	2.5%	2.2%	2.6%	2.4%	2.3%	2.1%	2.1%
Worker ratio	80.6%	90.0%	90.3%	90.7%	91.8%	92.1%	92.1%	92.7%	93.0%	93.6%
Direct labor costs	9.0%	10.1%	10.8%	13.1%	13.4%	13.2%	12.1%	13.3%	13.7%	14.7%
Indirect labor costs	0.8%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.6%	0.7%
Total labor costs	9.8%	10.8%	11.6%	13.8%	14.1%	13.9%	12.7%	14.0%	14.3%	15.4%

DENSO INDUSTRY INVESTMENT PRINCIPLE

- Maintaining the employment, gaining profit rapidly and aiming at the Expansion of the Enterprise Scale.

- Achieving a Stable and Sustainable Management through the Provision of Welfare Policy.

- Supporting the Further Development of Myanmar through the Continuing Social and Economical Contribution.

1.6 Objective of Initial Environmental Impact Assessment

The primary purpose of the study is:

- To acquire the project data including social and environmental situation of the project environment
- To identify the key environmental and social issues that might be arising from the project activities during construction and operation phase
- To evaluate the potential impacts of the facility
- To recommend further mitigation and management measures which can reduce or minimize the level of concerns and give a path to the sustainable development

Chapter II LEGISLATIVE FRAMEWORK

2.1. Myanmar Legislation and Institutions concerning environment

2.1.1 Introduction

Myanmar has already had some legislations and regulations relating to natural environmental aspects since before its independence. The Forest Act and the Burma Wildlife Protection Act, for example, were enacted respectively in 1902 and 1936 for the sustainability of the forest produces. Amended versions of such earlier acts and newly promulgated ones are herein briefly outlined to give a perspective on the existing legal and administrative framework concerning the environmental affairs in Myanmar.

2.1.2. Organizations for environmental management

In Myanmar, the Ministries get involved sectorally in legislation and administration of environment-related laws and acts depending on the technical nature of respective ministry and relevant environmental aspects. The principal Ministries implementing and administering such enacted laws and regulations on behalf of the government are Ministry of Forestry, Ministry of Mines, Ministry of Culture, Ministry of Agriculture and Irrigation, Ministry of Health, Ministry of Hotel and Tourism, and Ministry of Livestock and Fisheries. They issued orders, directives and notifications as may be necessary.

On the other hand, the National Commission for Environmental Affairs (NCEA), it was formed under the Ministry of Foreign Affairs in 1990, had played a role as a central/focal coordinating body for environmental matters, particularly adopting national policies on environment until 2011. At that time, the Minister of Foreign Affairs was the only responsible one who had been involved in the international environmental conferences, for that reason who tried to organize and set up environmental governance in Myanmar.

After the elected government of 2010, the Ministry of Forestry has been reformed into **Ministry of Environmental Conservation and Forestry** (MOECAF) and an **Environmental Conservation Law (2012)** has been approved by Myanmar Government.

There are also some NGOs cooperating in the environmental activities of Myanmar. Some of these are, Red Cross, Fire Volunteer Service, Forest Resources and Environment Development Association (***FREDA***), Wildlife Conservation Society (***WCS***), California Academy of Science, International Center for Integrated Mountain Development, Botanic Gardens Conservation International, Conservation on Biodiversity, Smithsonian Institution, Wild Birds Society of Japan, and Asian Elephant Specialist Group. Also, there are academic and research organizations like Myanmar Environment Institute (***MEI***) and Economic and Environmental Research Institute (***EERI***).

2.1.3 Environmental legislation and policies

In the state constitution, "environment" means "natural environment". It states that "The state shall protect the natural environment".

It was learnt that the National Commission on Environmental Affairs (NCEA) has adopted a **National Environmental Policy in 1994** to ensure the incorporation of environmental concerns in planning for economic development. The National Environmental Policy (NEP) emphasizes "the responsibility of the State and every citizen to preserve its natural resources in the interest of present and future generations".

The commission also formulated a blue print, the **Myanmar Agenda 21, in 1997** in response to the call of the Earth Summit to develop national strategies to implement the Global Agenda 21. This document may serve as a framework for integrating environmental considerations in future national development plans as well as sectoral and regional development plans in Myanmar.

Besides the above-stated documents, there are several laws and regulations relating to the environmental matters administered by various relevant Ministries in Myanmar. These are listed in Table 2.1.3-1. Some current major legislation is also tabulated with their main purposes in Table 2.1.3-2.

Table 2.1.3-1 The existing Myanmar laws relating to environment

A. Administrative Sector
1. The Territorial Sea and Maritime Zones Law, 1977
2. The Emergency Provisions Act, 1950
3. The Essential Supplies and Services Act, 1947
4. The Police Act, 1945
5. The Poisons Act, 1919
6. The Explosive Substances Act, 1908
7. The Towns Act, 1907
8. The Village Act, 1907
9. The Yangon Police Act, 1899
10. The Explosives Act, 1887
11. The Penal Code, 1861 of Offences Affecting the Public Health, Safety, Convenience, Decency and Morals.
B. Agriculture and Irrigation Sector
12. The Plant Pest Quarantine Law, 1993
13. The Pesticide Law, 1990
14. The Embankment Act, 1909
C. Culture Sector
15. The Protection and Preservation of Cultural Heritage Region Law, 1998
D. City Development Sector
16. The Development Committees Law, 1993
17. The Mandalay City Development Law, 1992

18. The City of Yangon Development Law, 1990 (Amended in 1995 and again in 1996)

19. The Underground Water Act, 1930

20. The Water Power Act, 1927

21. The City of Yangon Municipal Act, 1922 (The Law Amending the City of Yangon Municipal Act, 1991)

22. The Yangon Water-works Act, 1885

E. Finance & Revenue Sector

23. The Myanmar Insurance Law, 1993

F. Forestry Sector

24. The Protection of Wild Life and Wild Plants and Conservation of Natural Areas Law, 1994

25. The Forest Law, 1992

G. Health Sector

26. The National Food Law, 1997

27. The Traditional Drug Law, 1996

28. The Prevention and Control of Communicable Diseases Law, 1995

29. The National Drug Law, 1992

30. The Union of Myanmar Public Health Law, 1972

H. Hotels and Tourism Sector

31. The Myanmar Hotel and Tourism Law, 1993

I. Industrial Sector

32. The Private Industrial Enterprise Law, 1990

33. The Factories Act, 1951

34. The Oilfield (Workers and Welfare) Act, 1951

35. The Petroleum Act, 1934

36. The Oilfields Act, 1918

J. Livestock and Fisheries Sector

37. The Animal Health and Development Law, 1993

38. The Freshwater Fisheries Law, 1992

39. The Myanma Marine Fisheries Law, 1990 (The Law Amending the Myanma Marine Fisheries Law, 1993)

40. The Law Relating to Aquaculture, 1989

41. The Law Relating to the Fishing Rights of Foreign Fishing Vessels, 1989 (The Law Amending the Law Relating to the Fishing Rights of Foreign Fishing Vessels, 1993)

K. Mining Sector

42. The Myanmar Gemstone Law, 1995

43. The Myanmar Pearl Law, 1995

44. The Myanmar Mines Law, 1994

45. The Salt Enterprise Law, 1992

46. The Land Acquisition (Mines) Act. 1885

L. Science and Technology Sector

47. The Science and Technology Development Law, 1994

M. Transportation Sector

48. The Highways Law, 2000

49. The Motor Vehicles Law, 1964 (The Law Amending the Motor Vehicles Law of 1964 enacted in 1989)

50. The Myanmar Aircraft Act, 1934

51. The Inland Steam Vessels Act, 1917
52. The Ports Act, 1908
53. The Defile Traffic Act, 1907
54. The Yangon Port Act, 1905
55. The Canal Act, 1905
56. The Obstruction in Fairways Act, 1881

Table 2.1.3-2 Current principal legislations of Myanmar

Law and regulation	Year	Purpose
Factory Act	1951	To make effective arrangements in every factory for disposal of waste and effluence, and for matters of health, cleanliness and safety.
Public Health Law	1972	To promote and safeguard public health and to take necessary measures in respect of environmental health.
Territorial Sea and Maritime Zone Law	1977	To define and determine the Maritime Zone, Contiguous Zone, Exclusive Economic Zone and Continental Shelf and the right of the Union of Myanmar to exercise general and exclusive jurisdiction over these zones and the Continental Shelf in respect of preservation and protection of the marine environment, its resources and prevention of marine pollution.
Fishing Rights of Foreign Vessels Law	1989	To conserve fisheries and to enable systematic operation in fisheries with participation of foreign investors.
Marine Fisheries Law	1990	To conserve marine fisheries and to enable systematic operation in marine fisheries.
Forestry Law	1992	To implement forest policy and environmental conservation policy, to promote the sector of public cooperation in implementing these policies, to develop the economy of the State, to prevent destruction of forest and biodiversity, to carry out simultaneously conservation of natural forests and establishment of forest plantations and to contribute to the fuel requirements of the country.

National Environmental Policy	1994	To establish sound environment policies in the utilization of water, land, forest, mineral resources and other natural resources in order to conserve the environment and prevent its degradation.
Protection of Wildlife and Wild Plants and Conservation of Natural Areas Law	1994	To protect wildlife, wild plants and conserve natural areas, to contribute towards works of natural scientific research, and to establish zoological gardens and botanical gardens
Myanmar Mines Law	1996	To implement mineral resources policy.
Fertilizer Law	2002	To boost development of the agricultural sector, control fertilizer businesses, and to facilitate conservation of soil and the environment.

Sources: Data compilation by Resource and Environment Myanmar Co. Ltd. 2012 based on the references; 1) United Nations Development Programme, 'The World of Information: Asia and Pacific Review', *The Economic and Business Report,* 1997 Sixteenth Edition; 2) United Nations Development Programme, 1998; 3) *Human Development Report*, United Nations Development Programme, New York.

2.2. International treaties and agreements ratified and/or signed by the Government

Myanmar has also made commitments to the following international agreements on environmental issues as shown in the Table 2.2-1.

Table 2.2-1 Myanmar's Commitment to International Agreements on Environmental Issues

(Ref: National Commission of Environmental Affairs (NCEA) during 1959 and 2004)

No.	International Environmental Conventions/ Protocols/ Agreements	Date of Signature	Date of Ratification	Date of Member	Cabinet Approval Date/No.
1	Plant Protection Agreement for the South-East Asia and the Pacific Region, Rome, 1956		4-11-1959 (Adherence)	4-11-1959	
2	Treaty Banning Nuclear Weapons Test in the Atmosphere in Outer Space and Under Water, Moscow, 1963	14/8/1963	15-11-1963 (Ratification)		
3	Treaty on the Prohibition of the Emplacement of Nuclear Weapons and other Weapons of Mass Destruction on the Sea-Bed and Ocean Floor and in the Subsoil there of, London, Moscow, Washington, 1971	11/2/1971			
4	Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons, and on their Destruction, London, Moscow, Washington, 1972	10/4/1972			
5	International Convention for the Prevention of Pollution from Ships, London, 1973	(Accession)	undertakes to give effect to this Convention under para 1 & 2 of Article 1 of the Protocol of 1978		
6	Protocol of 1978 Relating to the International Convention for the Prevention of Pollution from Ships, London, 1973		4-8-1988 (Accession)	Except for Annexes III,IV and V of the Convention	
7	United Nations Convention on the Law of the Sea, Montego Bay, 1982	10/12/1982	21-5-1996 (Ratification)		
8	United Nations Framework Convention on Climate Change, New York, 1992 (UNFCCC)	11/6/1992	25-11-1994 (Ratification)		41/94 9-11-94

9	Convention on Biological Diversity, Rio de Janeiro, 1992	11/6/1992	25-11-1994 (Ratification)		41/94 9-11-94
10	Treaty on the Non-Proliferation of Nuclear Weapons, London, Moscow, Washington, 1968		2-12-1992 (Accession)		
11	Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and their Destruction, Paris, 1993	14-1-1993			
12	International Tropical Timber Agreement (ITTA), Geneva, 1994	6-7-1995	31-1-1996 (Ratification)		
13	Vienna Convention for the Protection of the Ozone Layer, Vienna, 1985		24-11-1993 (Ratification)	22-2-1994	46/93
14	Montreal Protocol on Substances that Deplete the Ozone Layer, Montreal, 1987		24-11-1993 (Ratification)	22-2-1994	46/93
15	London Amendment to the Montreal Protocol on Substances that Deplete the Ozone Layer, London, 1990		24-11-1993 (Ratification)	22-2-1994	46/93
16	The Convention for the Protection of the World Culture and Natural Heritage, Paris, 1972		29-4-1994 (Acceptance)		6/94 9-2-94
17	ICAO ANNEX 16 Annex to the Convention on International Civil Aviation Environmental Protection Vol. 1 Aircraft Noise	(Accession)			
18	ICAO ANNEX 16 Annex to the Convention on International Civil Aviation Environmental Protection Vol. II Aircraft Engine Emission	(Accession)			
19	Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space Including the Moon and Other Celestial Bodies (Outer Space Treaty), London, Moscow, Washington, 1967	22-5-1967	18-3-1970 (Ratification)		
20	Agreement on the Networks of Aquaculture Centres in Asia and the Pacific, Bangkok, 1988		22-5-1990 (Accession)		
21	South East Asia Nuclear Weapon Free Zone Treaty, Bangkok, 1995	15-12-1995	16-7-1996 (Ratification)		
22	United Nations Convention to Combat Desertification in Those Countries Experiencing Serious Drought and / or Desertification, Particularly in Africa, Paris, 1994 (UNCCD)		2-1-1997 (Accession)	2-4-1997	40/96 4-12-96
23	Convention on International Trade in Endangered Species of Wild Fauna and Flora, Washington, D.C.,		13-6-1997 (Accession)	11-9-1997	17/97 30-4-97

	1973; and this convention as amended in Bonn, Germany,1979 (CITES)				
24	Agreement Relating to the Implementation of Part XI of the United Nations Convention on the Law of the Sea of 10 December 1982, New York, 1994		21-5-1996 (Accession)		
25	Agreement to Promote Compliance with International Conservation and Management Measures by Fishing Vessels on the High Seas, Rome, 1973		8-9-1994 (Acceptance)		
26	ASEAN Agreement on the Conservation of Nature and Nature Resources, Kuala Lumpur, 1985	16/10/1997			
27	Catagena Protocol on Biosafety, Cartagena, 2000	11/5/2001			13/2001 22-3-01
28	ASEAN Agreement on Transboundary Haze Pollution	10/6/2002	13-3-2003 (Ratification)		7/2003 27-2-03
29	International Treaty on Plant Genetic Resources for Food and Agriculture, 2001		4-12-2004 (Ratification)	29-6-2004	
30	Kyoto Protocol to the Convention on Climate Change, Kyoto, 1997		13-8-2003 (Accession)		26/2003 16-7-03
31	Stockholm Convention on Persistent Organic Pollutants (POPs), 2001		18-4-2004 (Accession)	18-7-2004	14/2004 1-4-04

2.3 Current status of Environmental Conservation Law in Myanmar

Because of the very recent establishment of Environmental Conservation Law signed by the President on 30th March 2012, detail duty, coordination framework and mechanism have not been thoroughly settled yet. The ministry (MOECAF) recommends the environmental service companies to follow the world known environmental standards e.g. the Asia Development Bank (ADB) and International Finance Corporation (IFC) (Resource & Environment Myanmar, per. Com. 2012).

2.3.1 A brief outline of Environmental Conservation Law, 2012

The law consists of 14 chapters and 42 articles. The objectives of the law are:

(a) To implement the Myanmar National Environmental Policy;

(b) To lay down the basic principles and give guidance for systematic integration of the matters of environmental conservation in the sustainable development process;

(c) To emerge a healthy and clean environment and to conserve natural and cultural heritage;

(d) To reclaim ecosystems as may be possible which are starting to degenerate and disappear;

(e) To manage and implement for decrease and loss of natural resources and for enabling the sustainable use beneficially;

(f) To implement for promoting public awareness and cooperation in educational programmes

(g) To promote international, regional and bilateral cooperation

(h) To cooperate with Government departments, organizations, international organizations, non-government organizations and individuals

Chapter (III) Formation of the Environmental Conservation Committee

Article 4. (a): The Union Government shall form the Environmental Conservation Committee (ECC) with the Union Minister for the Union Ministry assigned by the Union Government as the Chairman and with suitable members to conserve the environment of the Republic of the Union of Myanmar;

Article 5: The Union Government shall stipulate functions and duties of the Committee to implement the objectives contained in this Law.

Article 6: The powers of ECC

(a) Carrying out educational activities;

(b) Suggesting to amend and insert, as may be necessary, the lessons on environmental conservation contained in school lessons;

(c) Accepting donations, grants, materials and technological aids, materials and technologies;

(d) Sending suitable suggestions and encouragements relating to environmental conservation;

(e) Asking necessary proposals and suggestions for conservation and enhancement of environment;

(f) Prohibiting the relevant Government departments and organizations if the environmental damages arise or situations for damage arise;

(g) Laying down and carrying out the Myanmar national environmental policies and other environmental policies for conservation and enhancement of environment

Chapter (IV) Duties and Powers relating to Environmental Conservation of the Ministry

Article 7: The duties and Powers relating to Environmental Conservation of the Ministry are as follows:

(a) Implementing environmental conservation policies;

(b) Planning and laying down national or regional environmental management work plans;

(c) Laying down, carrying out and monitoring programmes for enhancement of the environment, and control of environmental pollution;

(d) Prescribing environmental quality standards

(e) Submission of proposals to the Committee for economic incentive mechanisms

(f) Specifying categories of hazardous wastes generated from the production and use of chemicals in industry, agriculture, mineral production, sanitation

(g) Promoting the establishment of necessary factories for the treatment of solid wastes, effluents and emissions which contain toxic and hazardous substances;

(h) Prescribing the terms and conditions relating to effluent treatment in industrial estates and other and emissions of machines, vehicles and mechanisms;

(i) Laying down and carrying out a system of environmental impact assessment and social impact assessment as to whether or not a project to be undertaken causing a significant impact on the environment;

(j) Cooperating with International, regional, bilateral agreements, instruments and programmes;

(k) Laying down guidance relating to Ozone layer protection, conservation of Bio Diversity, of coastal, mitigation and adaptation of global warming and climate change, combating desertification and management of other environmental matters;

(l) Managing to cause the polluter to compensate for environmental impact, cause to contribute benefit from the natural environmental services, cause to contribute a part of the benefit from using the natural resources;

Article 8. Environmental Management Fund

To establish an Environmental Management Fund in the Union Budget for effective implementation of environmental conservation works in addition to the Union Consolidated Fund.

Chapter (V) Environmental Emergency

Article 9. Committee shall immediately report to the Union Government to declare the occurrence of environmental emergency; carrying out necessary measures

Chapter (VI) Environmental Quality Standards

Article 10. The Ministry may stipulate the following environmental quality standards:

(a) suitable surface water quality standards in the usage in rivers, streams, canals, springs, marshes, swamps, lakes, reservoirs and other inland water sources of the public;

(b) Water quality standards for coastal and estuarine areas;

(c) Underground water quality standards;

(d) Atmospheric quality standards;

(e) Noise and vibration standards;

(f) Emissions standards;

(g) Effluent standards;

(h) Solid wastes standards;

(i) Other environmental quality standards

Chapter (VII) Environmental Conservation

Article 13. The Ministry shall, under the guidance of the Committee, maintain a comprehensive monitoring system and implement by itself or in co-ordination with relevant Government departments and organizations in the following matters.

(a) The use of agro-chemicals which cause to impact on the environment significantly;

(b) Transport, storage, use, treatment and disposal of pollutants and hazardous substances in industries;

(c) Disposal of wastes come out from exploration, production and treatment of minerals, industrial mineral raw materials and gems;

(d) Carrying out waste disposal and sanitation works;

(e) Carrying out development and constructions;

(f) Carrying out other necessary matters

Compliance with Environmental Quality Standards

Article 14. To treat and deposit the substances with cause pollution in accord with environmental standards;

Article 15. To install facility and equipment to reduce or eliminate environmental pollution;

Article 16. To comply with the directives in the industrial estate or business in the industrial and special economic zone;

Chapter (VIII) Management of Urban Environment

Article 17. The Ministry shall, for the management of urban environment, advice as may be necessary to the relevant Government departments and Government organizations, private organizations and individuals in carrying out the following matters:

(a) Land use planning and management including zoning;

(b) Management of the construction industry in pivotal urban centres;

(c) Management of housing settlements;

(d) Management of wastes;

(e) Pollution control including land, water, air and noise pollution;

(f) Other necessary environmental management.

2.3.2 Guidelines and Standards related to Environment

To date, there has been an approved guideline related to environment, i.e. the FDI Rules Notification by Myanmar Investment Commission (31 January 2013). In its section 3, a list of business that require environmental impact assessment or related studies. 34 types of investment are listed in it.

The Ministry of Environmental Conservation and Forestry has been preparing a guideline or rules and regulations concerning environment since 2012, but it has not yet been unacted yet. However, the ministry (MOECAF) recommended the investors and environmental firms to apply Environmental Guidelines of Asian Development Bank (ADB) and that of International Finance Corporation (IFC) before Myanmar's guidelines have been legalized.

2.3.3 The draft Environmental Impact Assessment rules

The EIA rules are being notified by the Ministry of Environmental Conservation and Forestry during August, 2013 in exercise of the powers conferred by Section 42 Subsection (a) of the Environmental Conservation Law and with the approval of the Union Government. These rules are now brought to the Parliament to be approved within 90 days. Until now, the Ministry has verbally informed the following information to the environmental experts.

- The projects which are required to conduct IEE or EIA
- To Develop Environmental Management Plan

- EIA has to be conducted by independent Party who is registered in MOECAF
- EIA Review Committee
- EIA approval by the Ministry with the guidance of ECC

2.4. Current Organization and Management

Although Myanmar has a number of environmental related laws and regulations, it lacks the appropriate institutional framework to carry out ‘protection and conservation of the environment’ so as to achieve sustainable development by implementing these laws. However, the Ministry of Environmental Conservation and Forestry (MOECAF) did its best in addressing environmental issues through engagement, coordination and cooperation both at sectoral and national levels. **Myanmar Investment Commission (MIC) asked all the development projects passing through to conduct proper EIA from middle half of 2012**.

In exercise of the powers conferred under **paragraph 56 (b) of the Foreign Investment Law**, with the approval of the Government, Myanmar Investment Commission (MIC) announced the Economic Activities into following categories in Notification No. 1/2013 on 31st January, 2013.

1. List of Prohibited Economic Activities,
2. List of Economic Activities allowed in the form of Joint Venture with Myanmar citizens
3. List of Economic Activities which shall be allowed under the specific circumstances shown in the followings.
    - List of Economic Activities Permitted with the recommendations of the Relevant Ministry
    - List of Economic Activities Permitted with Other Conditions
    - List of Economic activities which required Environmental Impact Assessment (Ministry of Environmental Conservation and Forestry)

According to Environmental Conservation Law, 2012, the Union Government shall form **Environmental Conservation Committee (ECC)** which is the national level policy maker and

Ministry of Environmental Conservation and Forestry (MOECAF) act as national coordinating body. In fact, MOECAF was established to advise the Government on environmental policies, to act as a focal point and as a coordinating body for environmental affairs; and to promote environmentally sound and sustainable development in Myanmar.

2.4.1 Ministry of Environmental Conservation and Forestry (MOECAF)

Since country had initiated to start moving onto the path of democracy, new civil government was elected in 2010. After the selected government, Ministry of Forestry was reformed as Ministry of Environmental Conservation and Forestry (MOECAF) in 2011 as a national level agency to coordinate and handle environmental related issues and matters including the implementation of international environmental agreements signed by government, law enforcements and information dissemination. Since then NCEA was cancelled and MOECAF has been acting as focal coordinating body for country's overall environmental management and environmental matters. There are five departments under the MOEFAF, namely,

1. Planning and Statistics Department
2. Forest Department
3. Dry zone Greening Department
4. Environmental Conservation Department (ECD)
5. Survey Department
6. Myanma Timber Enterprise

Environmental Conservation Department (ECD) was created in October 11, 2012 to take responsibility for the effective implementation of environmental conservation and management in Myanmar. The objectives of forming ECD are shown below.

- To implement the national environment policy
- To develop short, medium and long term strategy, policy and planning for the integration of environmental consideration into the sustainable development process
- To manage natural resources conservation and sustainable utilization
- To manage the pollution control on water, air and land for environmental sustainability
- To cooperate with government organization, civil societies, private and international organizations for the environmental affairs.

Currently, Environmental Conservation Department has been hosting various environmental and sustainable related workshops and meetings in an effort to fulfill the country's most demanding human resource, knowledge and technical expertise in environmental sector by technical transferring and knowledge sharing from international consultants.

On the other hand, in collaboration with international finical institutions and United Nations organizations, MOECAF has also been carrying out the activities of preparing environmental regulations such as EIA rules, environmental quality standards and other environmental related issues. MOECAF has planned to organize sub divisions under ECD and extend the manpower in near future with the aim of effectively implement and manage the environmental regulations and resources in country wide. This newly organized environmental divisions include the followings.

- Administration
- Planning & Internal relation
- Pollution control
- Natural resource and EIA
- State and Region departments.

As the job allocation and staffing within the department are in progress detailed functions and responsibilities given to individual department remain still unknown in the time of the report.

2.4.2 Sectoral Framework / Mechanism

Different ministries involved in dealing with environmental issues also have their own policies, capacities, processes, legislations, and budgets for the environmental issues they have. For example, the Ministry of Environmental Conservation and Forestry has its own budget for the reforestation component of the Land Degradation Programme. However, given close cooperation between the different Ministries, information regarding budgets as on other matter is shared between one another. Capacity and institution building in the short and medium term is being carried out by each ministry separately on their own budgets. Governmental organizations and their prime environmental issues are summarized in Table 2.4.2-1.

Table 2.4.2-1 Governmental organizations and relevant environmental issues

(Source: Data compilation by Resource and Environment Myanmar Co. Ltd. 2012)

Environmental Issues / **Governmental Organizations**	Air Pollution	Water Pollution	Banned Pesticides	Environment in Factory	Toxic chemicals	Solid Waste	Energy	Water Supply	Waste Water Treat	Forest and Desert	Biodiversity	Natural Resources	Natural Disaster	Environmental Education
Ministry of Environmental Conservation and Forestry	o	o	o	o	o	o	o	o	o	o	o	o	na	o
Ministry of Agriculture and Irrigation	-	o	o	-	o	o	-	o	-	o	-	o	-	o
Ministry of Livestock and Fisheries	-	-	-	-	-	-	-	-	-	-	-	o	-	-
Ministry of Industry	-	o	na	-	o	o	-	na	o	-	-	-	-	-
Ministry of Health	na	o	na	na	o	o	-	o	-	-	-	-	-	o
Ministry of Energy	-	-	-	-	-	-	o	-	-	-	-	na	-	-
Ministry of Electric Power	-	-	-	-	-	-	-	na	-	-	-	na	-	-
Ministry of Transport	-	-	-	-	-	-	-	o	-	-	-	na	-	-
Ministry of Home Affairs	-	na	-	-	-	-	-	-	-	-	-	-	o	-
Ministry of Labour	o	o	-	o	-	-	-	-	o	-	-	-	-	-
Ministry of Mine	o	na	-	-	na	na	-	-	-	-	-	o	-	-
Ministry of Science and Technology	na	na	na	-	o	o	o	-	-	-	-	-	-	o
Ministry of Education	-	-	-	-	-	-	-	-	-	-	-	-	-	o
Ministry of National Planning and Economic Development	-	o	-	-	-	-	-	-	-	-	-	-	-	-
Ministry of Progress of Border Areas, National Races and Development Affairs	-	-	-	-	-	-	-	o	-	o	-	-	na	-
Myanmar Investment Commission	-	o	-	-	-	-	-	-	-	-	-	o	-	-
National commission for Water and Sanitation	-	na	-	-	-	-	-	o	-	-	-	-	-	-
Industrial Development Central Committee	o	o	-	-	-	-	-	-	-	-	-	-	-	-
Disaster Prevention Central Committee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yangon City Development Committee	o	o	-	-	o	o	-	-	o	-	-	-	-	-
Mandalay City Development Committee	o	o	-	-	o	o	-	-	o	-	-	-	-	-

Note: 1) : o → Relevant Organization - → No responsible na → Lack of information

2.5 Existing laws and regulations relevant to the proposed project

The following laws and regulations are generally relevant to the proposed factory project.

1. The Penal Code, 1861 of Offences Affecting the Public Health, Safety, Convenience, Decency and Morals
2. The Factories Act, 1951
3. The Union of Myanmar Public Health Law, 1972
4. Electricity Law, 1984
5. Private Industrial Enterprise Law (Law No. 22/90, 1990)
6. The Prevention and Control of Communicable Diseases Law, 1995
7. Fire Service Law, 1997
8. The Labour Laws of Myanmar
9. Environmental Conservation Law, 2012
10. Foreign Investment Law, 2012
11. Foreign Investment Rules, 2013
12. Prevention from Danger of Chemical and Associated Materials Law, 2013

2.5.1 Urban Water Utilization

Most of the laws shown below are relating for urban water utilization and for ground water use, the laws are still under processing, but some are prepared to draw new concepts.

(1) The Burma Municipal Act (1898)

(2) The Burma Canal Act 1905, as amended by Burma Act of 1914, of 1924 of 1928 and of 1934

(3) The Underground Water Act (1930) , Burma Act IV1930) 21 June 1930

(4) The Burma Water Power Rules (1932)(8) The Rangoon Municipal Act (1941)

Section 114 : Water Supply

Section 116 : Power of Access to Municipal Water Works

Section 117 : Prohibition of Erection of any Building which Injure Sources of Water Supply

Section 118 : Prohibition of Bathing in or polluting water

Section 119 : Occupiers of Premises to be primarily liable for Certain Offences Against the Act

2.5.2 Law of Govern Pollution

Myanmar has no specific laws to govern water pollution.

- Public Health Law (1972) (environmental health such as garbage disposal, use of water for drinking and other purpose, radioactivity, protection of air from pollution and food and drug safety)
- Burma Ports Act (1908) (harbours pollution, this merely focuses on the detriment to navigation)
- Myanmar Investment Commission guideline (1994) River and lake pollution from sewage, industrial waste and solid waste disposal are serious problems in Myanmar, but are not regulated explicitly by any laws. So, new laws relating to pollution should be enacted.

2.5.3 Existing legal framework related to labours and occupational safety in Myanmar

The existing legal framework most related to labours and occupational safety in Myanmar are the following **Labour Laws**.

- Employment Restriction Act. 1959
- Employment Statistics Act. 1948
- Employment and Training Act. 1950
- Factories Act. 1951
- Minimum Wages Act, 1949
- Payment of Wages Act. 1936
- Shops and Establishments Act, 1951
- Social Security Act. 1954
- The Leave and Holidays Act. 1951
- Trade Disputes Act, 1929
- Employment and Skill Development Law, 2013

In addition, Myanmar has also ratified numerous International Labour Organization Conventions. “According to section 24 of Myanmar’s constitution, the government must provide the means to protect labours.

2.5.3.1 The Factories Act 1951

The Factories Act 1951, is the principle Labour Law dealing with Safety, Health, Welfare and working hours of industrial workers in Myanmar. It is the act relating to occupational safety for the workers. It provides requirements concerning with working hours, working days, overtime, and certain health and safety measures. The provisions relating to health and safety aim at ensuring a healthy and safe workspace for workers. It includes provisions for ensuring cleanliness, adequate workspace, adequate lighting and ventilation, adequate supply of whole-some drinking water, adequate sanitary facilities, proper disposal of waste and effluence, absence of injurious dust and fumes at the workplace, fencing and guarding of dangerous machinery and places, precaution to be taken with regard to work in confined spaces, safety of lifting machinery, prevention of explosion and fires etc.

The stipulations relating to welfare include provision of suitable cleaning and washing facilities for workers, place for taking meals and rest, first-aid facilities, place for care of infants of working mothers, among other things. The provisions regarding hours of work and days of rest, include limiting hours of work to 8 hours a day and 44 hours a week, granting a weekly holiday and rate of payment for overtime work.

The Factories Act also has stipulations relating to children and young persons. A child under the age of 13 years in prohibited to work in any factory. A child who is between the age of 13 and 15 may work for a maximum of 4 hours a day subject to certain conditions.

The following is a summary list of the Factories Act, 1951 but not in details.

Working Hours: Normal working hour is 8 hours a day and 44 hours/ 40 hours/ 48 hours a week. A worker is entitled to minimum thirty minute rest period after working continuously for five hours.

Working Days: Working days may be up to six days a week (Remark: For government services, 5 days a week)

Overtime: Overtime is permissible. Its pay is twice the normal pay rate. And other rights can also get.

Safety and Health: The employer has an obligation to protect workers from occupational hazards relating to the physical facilities, harmful substances, and environment factors at the workplace. The employer has other obligations, depending on the number of workers employed.

The workers can also get other rights in accordance with Leave and Holidays Act, 1951, Social Security Act, 1954 and the Worker's Compensation Act, 1923.

For example,

- How many leaves with salary can get for a male or female worker?
- How many holidays can get for a worker?
- How much compensations can get for a worker?

In this factory worker field, Oilfield workers and Mine workers are also involved. There are also other rights for them and it may be a little different with other field of factory workers.

2.5.3.2 First law on safety and health in workplaces

The first law on safety and health in workplaces is being drafted by the Ministry of Labour, Employment and Social Security and will be promulgated in 2013. "The law will aim to prevent air and water pollution and improve safety at worksites, including fire prevention, ensuring construction workers use protective equipment, ensuring the safety of worksite operators and taking precautions for natural disasters (Source: Myanmar to draft first Myanmar Safety Law, MYANMAR TIMES Journal, 21 Dec 2012, as spoken by U Si Thu Aung, head of the Ministry's Factories and General Labour Law Inspection Department, during a seminar on occupational health and safety at the Union of Myanmar Federation of Chambers of Commerce and Industry in Yangon on Saturday, December 15).

2.5.3.3 General information on PPE in construction sites

Workers must start obeying regulations and wearing protective equipment to improve safety standards and reduce accidents. "New construction sites need a drain for waste, a good sanitation system, fire alarms and a safety net for construction workers. These precautions need to be widely understood by

workers entering the industry. At the construction site, the system for water and power often causes electrical fires. (***Source***: *Myanmar to draft first Myanmar Safety Law*, MYANMAR TIMES Journal, 21 Dec 2012, a speaker note from a seminar on occupational health and safety at the Union of Myanmar Federation of Chambers of Commerce and Industry in Yangon on December 15, 2012).

1. 2.5.4 Concerning government organizations in Myanmar for employee

Ministry of Labour, Employment and Social Security

Labour administration is the responsibility of the Ministry of Labour, Employment and Social Security. Departments under the Ministry include: (1) Department of Labour, (2) Social Security Board, (3) Central Inland Freight Handling committee, (4) Factories and General Labour Laws Inspection Department, and (5) Department of Labour Relations.

Department of Labour: Amongst others, the major functions performed by this department include conducting negotiations and conciliations in cases of dispute between employers and employees; providing employment services through its 78 township offices; providing overseas employment services; researching and reviewing labour laws; and maintaining manpower statistics.

Social Security Board: The Social Security Board administers the Social Security Scheme established pursuant to the Social Security Act.

Factories and General Labour Laws Inspection Department: This department researches, monitors, and enforce safety and health standards in factories. Its inspectors are authorized to fine employers who breach minimum safety and health standards, and who commit other transgressions such is not complying with trade disputes awards, or not remitting social security contributions. Apart from enforcement, the department also disseminates industrial safely information and provides consultancy services.

Occupational Health Division (OHD)

OHD is under the Department of Health in the Ministry of Health. Occupational health Division takes the responsibility for health promotion in work places, environmental monitoring of work places and

biological monitoring of exposed workers. The division is also providing health education on occupational hazards. Occupational Health Division has also investigated the industrial accidents in various states and regions to prevent the occurrence of similar episodes.

The Ministry of Health has been collaborating with Ministry of Labour for the formation of National Occupational Safety and Health Committee. The Ministry of Health played a major role in drafting "Chemical Safety Law" with the Ministry of Industry and other related ministries.

2. 2.6 Quantitative Target Levels for Consideration of Surrounding Environment

According to the Environmental Conservation Law, MOECAF shall set standards of environmental qualities as agreed by the Union Government and the Environmental Conservation Committee as follows:

(a) standard quality of water related to the use of inland water available to public places, dams, ponds, swamps, flooded land, channel, creeks and rivers

(b) standard quality of water at coastal regions and delta area

(c) standard quality of groundwater

(d) standard quality of air

(e) standard of noise and vibration

(f) standard of odor and emission gas

(g) standard of wastewater

(h) standard of soil and leachate from solid waste

(d) other standard environment qualities set by the Union Government

As of October 2013, these above standards have not been set yet. Therefore, the Project proponent set quantitative target levels on air quality, noise, and vibration which may cause adverse impact to surrounding environment by the Project. Each quantitative target level to be applied is described below.

2.6.1 Air Quality

There is no ambient air quality standard to receptors in Myanmar. On the other hands, most of the countries in south-east Asia have the ambient air quality standard to receptors as well as in Japan. International standard is also available in the Environmental, Health, and Safety (EHS) Guidelines

prepared by International Fiancé Cooperation (IFC). Table 2.6.1-1 shows ambient air quality standard in south-east Asia countries, Japan, IFC.

Table 2.6.1-1 Ambient Air Quality Standard in South-East Countries, Japan, IFC

Item	Averaging period	Japan	Thailand	Vietnam	IFC
SO_2	10 min	-	-	-	0.5 mg/m^3
	1 hour	0.1 ppm	0.3 ppm	0.35 mg/m^3	0.125 mg/m^3(Interim Target-1) 0.05mg/m^3(Interim Target-2) 0.02mg/m^3(Guideline)
	24 hours	0.04 ppm	0.12 ppm	0.125 mg/m^3	-
	1 year	-		0.05 mg/m^3	-
NO_2	1 hour	-	0.17 ppm	-	0.2 mg/m^3
	24 hours	0.04-0.06 ppm	-	-	-
	1 year	-	0.03 ppm	-	0.04 mg/m^3
NOx	1 hour	-	-	0.2 mg/m^3	
	24 hours	-	-	0.04 mg/m^3	
CO	1 hour	--	30 ppm	30 mg/m^3	-
	8 hours	20 ppm	-	10 mg/m^3	-
	24 hours	10 ppm	9 ppm	-	-
TSP	1 hour	-	-	0.3 mg/m^3	-
	24 hours	-	0.33 mg/m^3	0.2 mg/m^3	-
	1 year		0.10 mg/m^3	0.14 mg/m^3	-
PM_{10}	24 hours	-	0.12 mg/m^3	0.15 mg/m^3	0.15 mg/m^3(Interim Target-1) 0.10 mg/m^3(Interim Target-2) 0.07 mg/m^3(Interim Target-3) 0.05 mg/m^3(Guideline)
	1 year	-	0.05 mg/m^3	0.05 mg/m^3	0.07 mg/m^3(Interim Target-1) 0.05 mg/m^3(Interim Target-2) 0.03 mg/m^3(Interim Target-3) 0.02 mg/m^3(Guideline)
SPM	1 hour	0.2 mg/m^3	-	-	-
	24 hours	0.1 mg/m^3	-	-	-
$PM_{2.5}$	24 hours	0.035 mg/m^3	0.05 mg/m^3	-	0.075 mg/m^3(Interim Target-1) 0.05 mg/m^3(Interim Target-2) 0.0375 mg/m^3(Interim Target-3) 0.025 mg/m^3(Guideline)
	1 year	0.015 mg/m^3	0.025 mg/m^3	-	0.035 mg/m^3(Interim Target-1) 0.025 mg/m^3(Interim Target-2) 0.015 mg/m^3(Interim Target-3) 0.01 mg/m^3(Guideline)
Ozone	1 hour	-	0.10 ppm	0.3 mg/m^3	-
	8 hour daily maximum	-	0.07 ppm	0.2 mg/m^3	0.16 mg/m^3(Interim Target-1) 0.1 mg/m^3(Guideline)
	1 year	-	0.04 ppm	0.14 mg/m^3	-
Ox	1 hour	0.06 ppm	-	-	-
Pb	24 hours	-	-	0.0015 mg/m^3	
	1 month	-	0.0015 mg/m^3	-	
	1 year	-	-	0.0005 mg/m^3	

Source: National Air Quality Standard in Japan (Circular No. 25, 1973, originally), Ministry of Environment, Japan
Notifications of National Environmental Board No.10, 24, 28, 33, and 36, Ministry of Natural Resources and Environment, Thailand
National Ambient Air Quality Standard (TCVN5973:2005), Ministry of Science and Technology in Vietnam
Environmental, Health, and Safety Guidelines, General EHS Guidelines, IFC, 2007

2.6.2 Noise

There is no noise standard in Myanmar. South-east Asia countries such as Thailand, Vietnam, and Indonesia as well as IFC EHS Guidelines have their ambient noise standards but not have standards along road. In Japan, there are several noise standards and guidelines along the roads depending on types of the roads and land use. Among the standards and guidelines, request limit for noise from vehicle under noise regulation act is adopted as shown in Table 2.6.2-1.

Table 2.6.2-1 Request Limit for Noise from Vehicle in Japan

Category	Land Use	Lane	Day time (Leq) (6am-10pm)	Night time (Leq) (10pm-6am)
a Zone	Exclusive Residential Area	1 Lane	65 dB	55 dB
		More than 2 Lanes	70 dB	65 dB
		4 Lanes categorized as main road	75 dB	70 dB
b Zone	Residential Area with small shops and office	1 Lane	65 dB	55 dB
		More than 2 Lanes	75 dB	70 dB
		4 Lanes categorized as main road		
c Zone	Commercial and Industrial Area	1 Lane	75 dB	70 dB
		More than 2 Lanes		
		4 Lanes categorized as main road		

Source: Noise Regulation Act, Japan (Law No.98, 1968, Amended No.33, 2006)

2.6.3 Vibration

There is no vibration standard in Myanmar. South-east Asia countries such as Thailand, Vietnam, and Indonesia have their vibration standards for damage of buildings etc. but not have standards along road. In Japan, there is a guideline along the roads depending on types of the roads and land use, called request limit for vibration from vehicle under vibration regulation act as shown in Table 2.6.3-1.

Table 2.6.3-1 Request Limit for Vibration from Vehicle in Japan

Category	Land Use	Day time (Leq) (5am-10pm)	Night time (Leq) (7pm-8am)
First Zone	Residential Area	65 dB	60 dB
Second Zone	Commercial and Industrial Area	70 dB	65 dB

Note: Local governor can decide starting time and ending time as day time requirement and night time requirement

Source: Vibration Regulation Act, Japan (Law No.64, 1976, Amended 2004)

2.6.4 Waste Water Standard in Myanmar

Currently, Myanmar has no specific waste water standard related to construction activities. The waste water standard shown in Table 2.6-4 is issued from the Ministry of Industry especially to be used for factories. It is referable and only one waste water standard available in Myanmar. However, the name of original regulation of the standard is not known.

Table 2.6.4-1 Industrial Wastewater Effluent Standard of the Ministry of Industry

No	Items	Allowable Rate	Unit	Notes
1.	BOD (5days at 20·°C)	max 20-60	ppm	Depending on geography of waste discharging point
2.	Suspended Solids	max 30	ppm	
3.	Dissolved solids	max 2,000	ppm	
4.	pH Value between 5 and 9 Permanganate value	max 60	ppm	
5.	Sulphide (as HS)	max 1	ppm	
6.	Cyanide (as HCN)	max 0.2	ppm	
7.	Oil and grease	max 5	ppm	
8.	Tar	none	-	
9.	Formaldehyde	max 1	ppm	
10.	Phenols and cresols	max 1	ppm	
11.	Free chlorine	max 1	ppm	
12.	Zinc	max 5	ppm	
13.	Chromium	max 0.5	ppm	
14.	Arsenic	max 0.25	ppm	
15.	Copper	max 1.0	ppm	
16.	Mercury	max 0.005	ppm	
17.	Cadmium	max 0.03	ppm	
18.	Barium	max 1.0	ppm	
19.	Selenium	max 0.02	ppm	
20.	Lead	max 0.2	ppm	
21.	Nickel	max 0.2	ppm	
22.	Insecticides	None	-	
23.	Radioactive Materials	None	-	
24.	Temperature	max 40	ºC	
25.	Colour and Odor	-		Not objectionable when mixed in receiving water

Source: Ministry of Industry

2.6.5 Institutional Arrangement

For implementing the project, a Project Management Unit (PMU) is expected to be set up at Denso Industrial Asia Ltd. Figure 2.6.5-1 shows the proposed organizational chart of the PMU. Under the supervision of the PMU HSE department will be set. One HSE manager will be assigned as responsible section for environmental and social consideration of the Project.

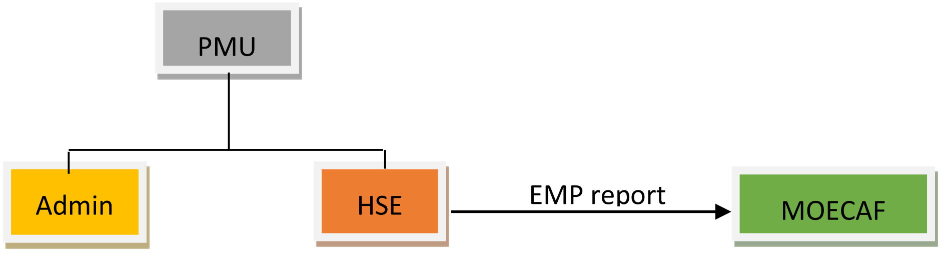


Figure 2.6-1 Organization chart for Environmental Management and Monitoring.

Chapter III Overview of Environmental and Social Baseline Conditions

3.1 Introduction

As part of this study, REM's environmental consultant team visited the proposed factory compound during third week of April, 2014. The purpose of the visit is to observe the environmental and social features of the area preliminarily and to collect primary information on the development of the factory. During the immediate field visit, REM team has studied the geographical, environmental and social situation of proposed area and its surrounding environment. Existing information on environment of the project is referred from recent measurement of the consultant and secondary data from various sources. Air and noise quality, soil and water quality are outlined for estimating potential impacts of the project.

3.2 Overview of Physical Environment

The existing physical environment in and around the proposed project site is studied based on the secondary data especially for geology, soil type, hydrology, and climate condition.

On the other hands, the prevailing condition of the physical environment is also studied by the available secondary data such as air quality condition, and noise quality condition around the project site.

3.2.1 Physiography and Drainage

The proposed project site is located in Hlaing Thar Yar Township which is one of the new towns emerged after 1988 in the suburban areas of Yangon city. It is also bounded by the two rivers; Hlaing River in the east and Panhlaing River in the south respectively.

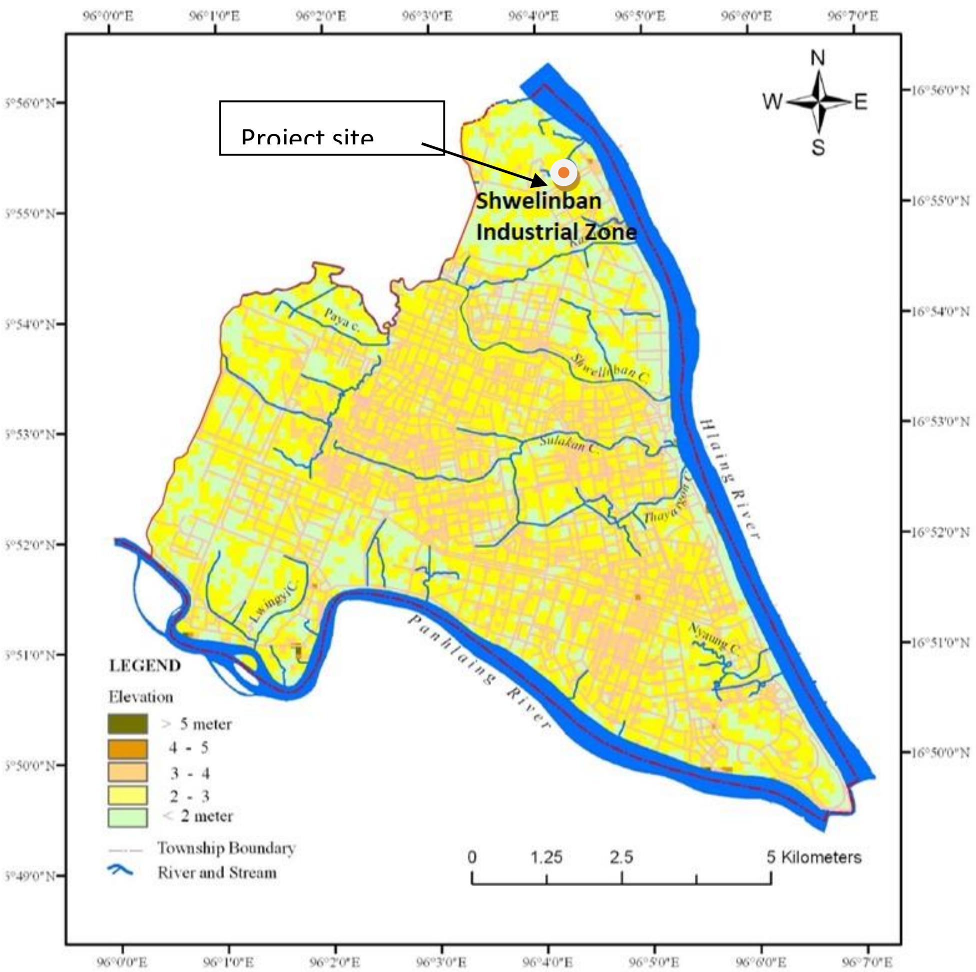


Figure 3.2-1 Map showing elevation above sea level shown in color shading and Drainage system in Hlaingtharyar Township (Source: Department of Geography, University of Yangon, 2011, GIS map based on UTM Map No. 16960, (2004), Survey Department and DEM)

The relief of the township is low and flat with a maximum elevation of about 5 meters above sea level only in a few area. Generally, most part of the region is lower than 5 meters. The area around Shwelinban Industrial Zone has a range of elevation from less than 2 to 3 meters. The area along the western bank of Hlaing River is relatively lower and liable to inundation in the rainy season.

The main streams are the Hlaing and Panhlaing rivers. The Hlaing River serves as the eastern boundary for about 13.72km (8.53mile). The river is the southern continuation of the Myitmakha River and it

flows south as the Yangon River into the Gulf of Mottama. Kasin, Shwelinpan, Sulatan, Tharyargon and Nyaungchaung creeks flow from the west into the Hlaing River. In response to seasonal rain, the depth and velocity of water in the rivers change markedly between the wet and dry seasons.

3.2.2 Geology of Hlaing Thar Yar Area

Stratigraphy and Lithostratigraphic units of the study area are described in Table 3.2.2-1. The uppermost unit of Hlaing Thar Yar Area is covered by alluvial deposit of recent geological age which is mainly composed of clay and silt with trace of sand. The recent alluvial deposit is underlain by Valley-filled deposits of Pleistocene age which are mainly of clay, silt, sand and fine to very coarse gravels, serving as a good reservoir as it is saturated with groundwater and yields large amount of water to all wells in Hlaing Thar Yar area. The Valley-filled unit is underlain by Danyingon Clay unit which consists mainly of reddish brown, grey to blue, laminated clays with interbedded sandstones.

Table 3.2.2-1 The Lithostatigraphic Units of Hlaing Thar Yar Township

Stratigraphic Unit	Geological Age	Lithostratigraphic Units	Stratigraphic Thickness (in feet)
Younger Alluvium	Recent	Alluvial Deposits	0 - 50
Irrawaddy Formation	Pleistocene	Valley-filled deposits	60 - 300
	Pliocene	Danyingone Clays	NA
		Arzanigone Sandrocks	NA

(**Source**: *Win Naing, 1972, The Hydrogeology of Greater Yangon*)

Danyingon clays unit is also underlain by Arzanigon sandstone unit which are of Pliocene age and are composed of yellowish gray to bluish grey loosely cemented sandstone, fine to coarse grained sometimes very coarse to gritty with intercalated clays and mudstone and siltstones. Although the unit yields moderate to fairly high amount of water through tube wells, iron content is undesirably high.

3.2.3 Climate Condition of Hlaing Thar Yar Area

As the studied area, Hlaing Thar Yar Township, is located in the low latitude area, the temperatures are high, except a few months in the cool season. The climatic conditions are the manifestation of seasonal shift of monsoon winds.

Based on the data acquired from Kabaraye meteorological station, the annual mean temperature is 24.9° C (76.82°F). The monthly mean temperature is highest in April with 30.5° C (86.9 °F) and lowest in January with 25.0° C (77°F). The annual range of temperature is 5.5° C (41.9°F). The low range is due to proximity to the sea. The monthly mean maximum temperature is considerably high in the hot dry season which often rise up to 40° C (104°F). Such intense heat enhances the rate of evaporation which in turn increases the amount of soil moisture deficit. The monthly minimum mean temperatures are moderate and warm even in the cool season (Table 3.2.3-1, Figure 3.2.3-1).

Table 3.2.3-1 Temperature and Rainfall Conditions of Yangon area during 1998 and 2007 (Source: Data acquired from Department of Meteorological and Hydrology, Yangon, 2007)

Element	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Average
Monthly Rainfall (mm)	0.1	0.9	15.8	69.3	424.8	559.0	553.6	542.7	445.0	194.6	43.3	11.8	2861.2
Maximum Temperature (°C)	33.5	35.6	36.9	37.8	33.4	30.9	30.3	30.1	30.9	32.9	34.0	33.0	33.3
Minimum Temperature (°C)	16.6	18.1	20.4	23.2	23.2	22.6	22.4	22.4	22.5	22.5	20.5	17.3	21.0
Mean Temperature (°C)	25.0	26.8	28.7	30.5	28.3	26.7	26.4	26.3	26.7	27.7	27.2	25.2	24.9

The mean annual total rainfall is 2861.2 mm and it is received during the period from the second week of May to the end of October. Rainfall is highly seasonal and the dry period lasts for about 6 months and the long dry period is the chief reason of scarcity of water, as some households have no access to

central water supply system and cannot afford to sink tube-well. According to Koppen's climatic classification, the type of climate is Tropical Monsoon, distinct alternating wet and dry seasons.

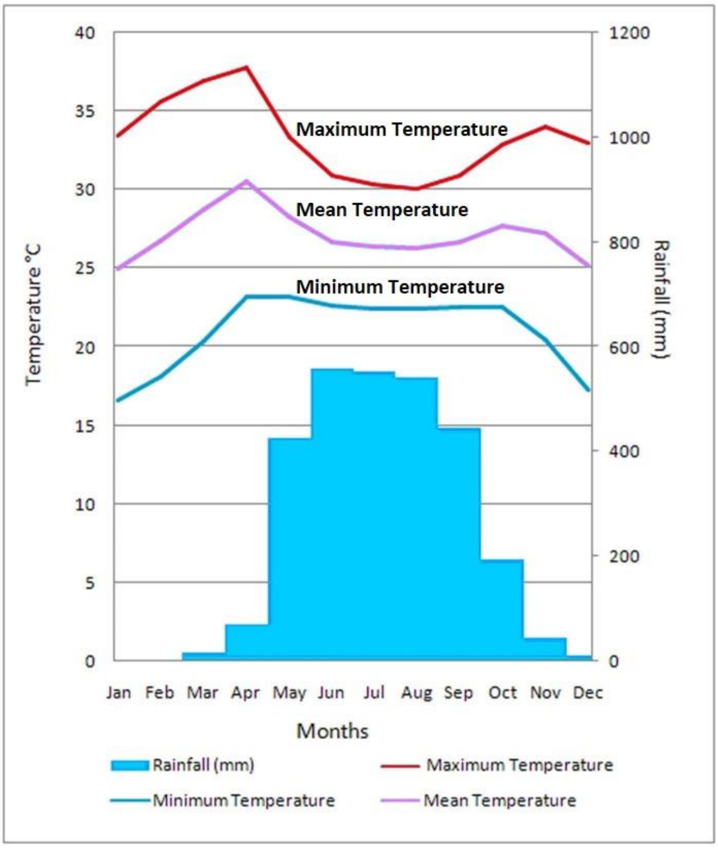


Figure 3.2.3-1 Climatograph of Hlaingtharyar Township during 1998 and 2007 based on the data from Table 3.2.3-1

Generally the climatic condition of the study area is favorable for human settlement, although occasional flooding and intense heat are undesirable. The flooding not only restricts the movement of people, but also causes the surface water highly contaminated which in turn leads to the incidence of water borne diseases to the inhabitants.

3.2.4 Soil Type

High temperature and abundant rainfall enhance soil formation. Most soils that develop within the township are derived from alluvium and thus the resultant soils are of ***meadow soils group***. Meadow soils cover most of the township area. Meadow gray soils develop in poorly drained areas. Meadow alluvial soils occur along both sides of the river banks of Hlaing and Panhlaing rivers.

As these soils have not matured, only thin “A” horizon is observed. The color ranges from grey to dark grey. Owing to high content of clay it is less impermeable and thus suitable for growing paddy. That soil has bluish grey or grey color with reddish or reddish brown spots. The clay content is high, resulting in water logging in the raining season. The PH value of the soils is between 5.6 and 6.5. These soils can be used as paddy land when after some modification. Salty mud flat develops within tidal forest (Myanmar Land Use Bureau, 1957). The meadow soils and their derivatives become slippery and sticky when wet and thus it needs to be hardened to have firm foundation for buildings or roads.

3.2.5 Natural Vegetation

The existing primary natural vegetation had been removed even before the establishment of the townships, since the area was used as paddy farmland and village land. The scattered large trees and most of the planted shade trees were destroyed by the powerful Nargis Storm in May, 2008. There are still some trees and Kokko (*Albizzia lebbek*), Khayay (*mimusops*), Padauk (*Pterocarpus macrocarpus*), Mango (*Curcuma amada*), Coconut (*Cocos nucifera*) and Nyaung (*Ficus obtusifolia*) are more common along the roads and some fruit trees within the house compounds. Along the creeks are some tidal forest species such as Lamu, Thahne and Dhani.

3.2.6 Wildlife Inhabitants

No wildlife inhabitants are present within the study area as the area is occupied by human residences and related buildings and infrastructures. A few bird species, mostly crow, sparrow and pigeon are fairly common, in addition to some snakes.

3.2.7 Air Quality

3.2.7.1 Relevant Air Quality Legislations and Guidelines

In views of legal policies and framework, Ministry of Environmental Affairs & Forestry signed/ratified the International Environmental conventions / protocols and agreements relating to air quality and they are detailed in Table 3.2.7-1

Table 3.2.7-1 International Air Quality Conventions/Protocols/Agreements Signed/Ratified by Myanmar

International Environmental Conventions/Protocols/Agreement	Date of Signature	Date of Ratification	Date of Member	Cabinet Approval Date
1. Kyoto Protocol to the Convention on Climate Change, Kyoto, 1997		13-8-2003 (Accession)		26/2003 (16-7-2003)
2. ASEAN Agreement on Transboundary Haze Pollution	10-6-2002	13-3-2003 (Ratification)		7/2003 (27-2-2003)
3. United Nations Framework Convention on Climate Change, New York, 1992 (UNFCCC)	11-6-1992	25-11-1994 (Ratification)		41/94 9-11-1994
4. London Amendment to the Montreal Protocol on Substances that Deplete the Ozone Layer, London, 1990		24-11-1993 (Ratification)	22-9-1994	46/93
5. Montreal Protocol on Substances that Deplete the Ozone Layer, Montreal, 1987		24-11-1993 (Ratification)	22-9-1994	46/93
6. Vienna Convention for the Protection of the Ozone Layer, Vienna, 1985		24-11-1993 (Ratification)	22-9-1994	46/93

3.2.7.2 Myanmar Laws and Regulations Relating to Emissions

Administrative Sector

1. The Explosive Substances Act, 1908
2. The Emergency Provisions Act, 1950

City Development Sector

3. The City of Yangon Municipal Act, 1922

(The Law Amending the City of Yangon Municipal Act, 1991) concerns emission of smoke, steam, particulates and toxic gases.

3.2.7.3. International Air Quality Guidelines and Standards

Air pollutants can have acute (short-term) and/or chronic (long-term) effects on human health/ecosystems. Therefore, air quality guidelines and thresholds are fundamentals to effective air quality management at the proposed project site. In terms of ambient air quality standard, there is no own air quality standard in Myanmar yet therefore the relevant guidelines and standards are adopted to compare with the findings. Table 3.2.7-2 presents relevant air quality guidelines and standards.

Table 3.2.7-2 WHO, USEPA, World Bank and EU Ambient Air Quality Standards/Guidelines

Pollutant	Averaging Period	Limit/Guideline Value/ Standards (μgm-^{3})	Relevant Standards/ Guidelines
NO_2	1 year	40	WHO Guideline
		100	NAAQS (USEPA)
		40 30	EU (human health) EU (vegetation)
		40	WHO Guideline
	24 hour	100	NAAQS (USEPA)
		150	WHO/World Bank
	1 hour	200	WHO Guideline
		200	EU (human health)
SO_2	1 year	50	WHO Guideline
		50	World Bank
		20	EU (ecosystem)
	24 hours	20	WHO Guideline
		80	NAAQS (USEPA)
		125	World Bank
		125	EU (human health)
	1 hour	365	NAAQS (USEPA)
		350	EU (human health)
CO	8 hour	10,000	WHO Guideline
		10,000	World Bank
		10,000	EU standard
	1 hour	30,000	WHO Guideline
		40,000	NAAQS (USEPA)
$PM_{2.5}$	1 year	10	WHO
	24 hour	25	WHO
		35	NAAQS (USEPA)
		50	World Bank
PM_{10}	1yr	40	EU (Stage 1) (human health)
		20	EU (stage 2) (human health)
		20	WHO Guideline
	24 hour	50	EU (Stage 1) (human health)
		50	EU (stage 2) (human health)
		50	WHO Guideline
		150	NAAQS (USEPA)
		70	World Bank
TSPM	24 hours		100

Source: WHO guidelines, 2005, USEPA National Ambient Air Quality Standards (40 CFR part 50), World bank

www.saaqis.org.za/filedownload.aspx?fileid=286)

3.2.7.4 Baseline Ambient Air Quality

Based on the geography of Hlaing Thar Yar Industrial zone, most areas are relatively uniform and flat region. Moreover, land use can be assumed to be more or less similar in nature depending on the locality like commercial, residential and nearby industrial source accordingly. Based on the prevailing wind directions of the proposed project site, the ambient air samples were collected from one location.

The air quality survey recorded the 24-hour average of Total Suspended Particulates (TSPM), Particulate Matter (PM10), Carbon Monoxide (CO), Sulphur Dioxide (SO_2), Nitrogen Dioxide (NO_2) and Volatile Organic Carbon (VOC) simultaneously along with meteorology condition at the monitoring sites.

Generally, the existing baseline level of dust (respirable PM10) in selected site was slightly higher than WHO guideline. According to the observations, these particles could have derived from wind-blown dust of open land as well as from construction activities nearby the factory project where there are some excavation sites rather than from industrial sources.

Baseline air quality for the air pollutants (CO, VOC and SO_2) indicated that the air quality around the proposed project site was good.

(a) Ambient Dust Levels

The results from the baseline survey indicated that the 24-hour average levels of PM 2.5 is less than WHO guideline whereas PM 10 is not met with the WHO guideline but it is met with the NAAQS (USEPA) standard.

Table 3.2.7-3 Baseline PM10 and TSPM Concentrations in Hlaing Thar Yar (24-hr Average)

Location	PM10 in µg/m^3	TSPM in µg/m^3
Point 3 (near to West Yangon University)		
Day & Night (average)	**45.25**	**249**
Yangon Data; 2007-2008	**136.92**	**188.66**
WHO guideline	50[1]	100[1]
NAAQS (USEPA)	150[1]	NA

(1) 24hr average

Bold indicates higher than WHO air quality guidelines

NA – not available

Yangon data was conducted near around point 1 in the November, 2008.

(b) Ambient Gaseous Levels

Table 3.2.7-4 presents the results of the ambient gases levels continuously monitored per minute over an average 24-hr period in the Hlaing Thar Yar Industrial area.

The survey results at the air monitoring station indicated that baseline contents of CO, SO_2 and NO_2 are met both the WHO guideline and NAAQS (USEPA) standard.

Table 3.2.7-4 Baseline Ambient Gases Levels (24-hr Average)

Location	CO ppm	VOC ppm	SO2 ppb	NO2 ppb
Point 3 (West Yangon University)				
Day & Night (average)	0	0	2.16	37.5
Yangon Data; 2007-2008	NA	NA	2.23	22.88
WHO guideline	NA	NA	20[1]	40 (annual)
NAAQS (USEPA)	9(8hr)	NA	0.5(3hr)	53(annual)

(1) 24hr average

Bold indicates higher than WHO air quality guidelines

NA – not available

Yangon Data was conducted in Insein near around the proposed project site in November, 2008

(c) Local Climate

Table 3.2.7-5 presents 24hr average condition of local climate during the sampling period.

Table 3.2.7-5 Local meteorology (24-hr Average)

Sr	Temperature Deg (C)	Relative Humidity (RH) %	Wind Speed (kph)	Wind Direction (Deg)
1	31	73	3	150

3.2.8 Noise Condition in the Present Project Area

3.2.8.1 Introduction

In this study, we used the secondary data of noise quality for the future noise prediction.

The impact of noise sources on surrounding community depends on:

- Characteristics of the noise sources (instantaneous, intermittent or continuous in nature). It is well known that a steady noise is not as annoying as one that is continuously varying in loudness.
- The time of day at which noise occurs, for example loud noise levels at night in residential areas are not acceptable because of sleep disturbance.
- The location of the noise source, with respect to noise sensitive land use, which determines the loudness and period of noise exposure.

3.2.8.3 Equivalent Sound Pressure Level (Leq)

The Leq is the equivalent continuous sound level, which is equivalent to the same necessary because sound from noise source often fluctuates widely during a given period of time. This is calculated from the following equation:

Leq (hrly) = L50+ (L10 - L90)2/60

Also:

- L_{day} is defined as the equivalent noise level measured over a period of time during day (6 am to 10 pm).
- L_{night} is defined as the equivalent noise level measured over a period of time during night (10 pm to 6 am).

Ambient noise quality result of the Hlaing Thar Yar is as given in Table 3.2.8-1 and Figure 3.2.8-1.

Table 3.2.8-1 Hourly Noise data (Day and Night timings in Leq dB(A))

Site Code	**N1**
6:00-7:00	46.861
7:00-8:00	45.586
8:00-9:00	51.604
9:00:-10:00	61.994
10:00-11:00	64.200
11:00-12:00	52.588
12:00-13:00	47.804
13:00-14:00	62.474
14:00-15:00	44.542
15:00-16:00	50.954
16:00-17:00	53.153
17:00-18:00	54.038
18:00-19:00	47.028
19:00-20:00	45.994
20:00-21:00	48.700
21:00-22:00	50.138
L_{day}	51.728
Day Limit	75
Night Hours	
22:00-23:00	54.760
23:00-00:00	51.524
00:00-1:00	52.263
1:00-2:00	50.211
2:00-3:00	41.133
3:00-4:00	45.617
4:00-5:00	46.141
5:00-6:00	43.154
L_{night}	48.100
Limit	70

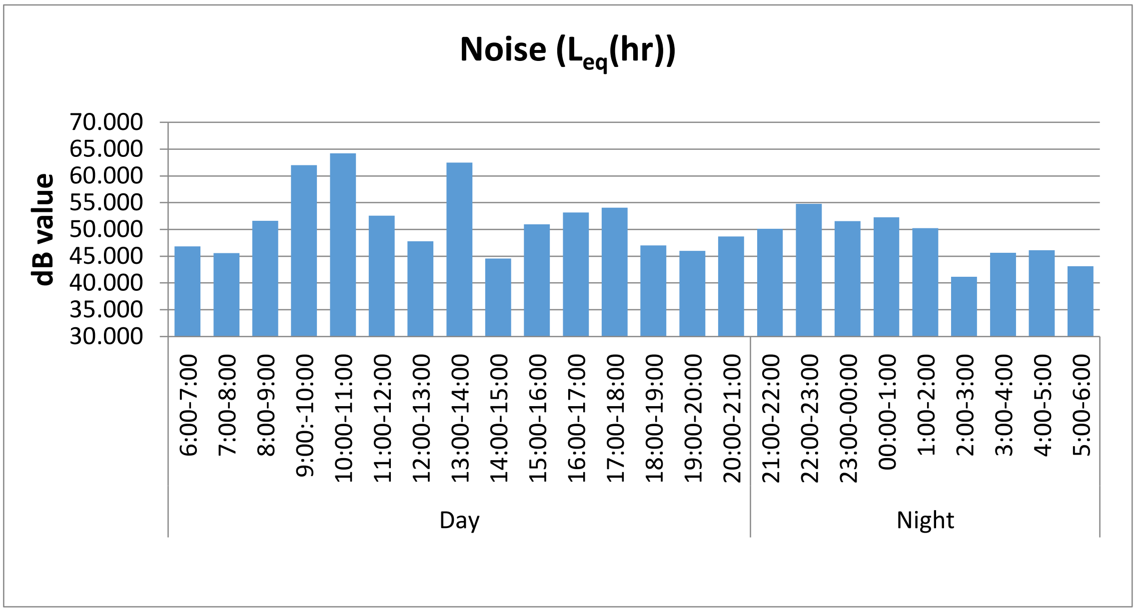


Figure 3.2.8-1 Variation of noise level during day time and night time in Hlaing Thar Yar Industrial zone.

The variation of noise level during day time and night time in Hlaing Thar Yar area is shown in Figure 3.2.8-1. The equivalent noise level L_{eq}24 hr (L_{day}) values of one location was 51.73 dB(A) and L_{night} value was 48.10 dB(A). These values are lower than the noise level standard of World Bank Standard. The main noise source probably comes from vehicle traffic.

3.3 Overview of Social Environment

The proposed factory is located in the Hlaing Thar Yar Township and the brief demographic profile of the Township is described below.

Hlaing Thar Yar Township is relatively a new town of Yangon City is located on a flat land with the average height of 100 feet above sea level. Pan Hlaing River which is the southern boundary of the township is flowing into Hlaing River from the west. Hlaing Thar Yar Township is located in the western bank of Hlaing River and is bounded by Insein Township in the east, Htantapin Township in the west, Twantay Township in the south and Shwepyithar Township in the north. Hlaing Thar Yar Township is connected old Yangon City with Bayintnaung Bridge, Anawyahta Bridge and Shwepyithar Bridge.

Population density of Hlaing Tha Yar is 14463.15 person/ mile^2 (5584.66 person/ km^2) and then population growth is around 7.15%/year during 1998 to 2011. Number of students is equivalent to 20% of total township population and so it can be estimated that daytime-nighttime population ratio will be high. More than 26 % of its employment is in the tertiary sector when around 10.05 % is primary employment, Domestic net production and value of services is 0.5 million kyat/person.

Public transportation modes in this township are road and railways transportation. In this township, sources of water for drinking and other use of residents are pipe water and tube well. For telecommunication sector, rate of household with land phone is about 0.12 % and it shows very low rate within Yangon Region.

Land use data shows that 3309 acres (13.39 km^2) cultivated land. For education sector, school enrollment rate of 5 years old children is 100 % but percentage of students eligible for university is only about 30.72 %.

The demographic profile of Hlaing Thar Yar Township is shown in Table 3.3-1.

Table 3.3-1 Profile of Hlaing Thar Yar Township.

LOCATION AND GEOGRAPHY	
Terrain	Latitude 17 to 17.10, Longitude 96 to 96.3
Above Sea Level	100 ft (30.48m)
Adjacent Territory (E/W/S/N)	Insein, Htantapin,Twantay, Shwepyithar
TOWNSHIP PROFILE	
Administration Structure	Ward 20
Main Three Ethnicity	Bamar 92.9%, Rakhine1.41%, Karen1.6%
Religion	Buddhist 174.90%, Christian 3.11%, Hindu 4.07%, Muslim 1.81%
DEMOGRAPHIC DATA	
Population (1998)	199,190
Population (2011)	488,768
Ratio of Male/ Female	1: 1.07 (Male 181110, Female 194932)
Ratio of Under 18 Years and Above 18 Years	1: 2.62
Share in Yangon Total Population (%) (2003)	8.3
Ave. Population Growth Rate 2000-2011 (%/yr)	7.15
Gross Population Density (2011)	14463.15 person/mile^2 (5584.66 person/km^2)
HOUSEHOLD INFORMATION	

Numbers of House	57,770
Numbers of Household	80,101
Ratio of Urban and Rural Household	Urban Only
Average Household Size (persons)	6
Average Monthly Household Income	212,308
INDUSTRIAL FIGURE	
Primary: Secondary: Tertiary Employee	**10.05: 68.83: 26.13**
Share of Population in Employment (%)	16
Sutdents in Total Population (%)	16
Domestic Net Production and Value of Services	**101,946.2 million kyat (0.5 million kyat/ person)**
Cultivated Land Area	3309 acre (13.39 km^2)
Fishery Farm Area	0
Numbers of Livestock	25,248
Numbers of Factory	740 (Public 1, Private 739)
Numbers of Main Market	14
INFRASTRUCTURE	
Road Length	64.9 mile (104.09 km)
Road Area (km^2)	
Railway Length (mile)	0.00
Inland water (mile)	3 mile (4.81 km)
Numbers of Bridge	Over 180 ft (0.05 km) 5
Numbers of Harbors	0
Numbers of Electric Power Plant	0
Distributed Electricity (kW)	626,000
Source of Water	Pipe water & Tube Well
Household with Telephones (%)	0.12
Household with Mobile Phones (%)	0.31
LAND USE (2012)	
Area	26 $mile^2$ (67.33 km^2)
SAFETY AND SECURITY	
Crime-fighting Force	223
Raito of Police Person and Population	1 : 1,686
Fire Brigade	Permanent 7, Reserve 261, Fire truck 41
Numbers of Crimes	Major 10 Crimes (21/year), Other Minor 7s (622/year)
EDUCATION	
Numbers of University & College/ No. Students	1/7400
Numbers of High School/ No. of Students	6/7342
Numbers of Middle School/ No. of Students	15/21200

Numbers of Primary School/ No. of Students	37/40035
Numbers of Pre School/ No. of Students	2/192
Numbers of Monastery Education/ No. of Students	10/3048
School Enrollment Rate of 5 Years Old Children (%)	100
Percentage of Students Eligible for University (%)	30.72
HEALTH	
Numbers of Hospital/ Clinic/ Maternity Center	3/3/0
Numbers of Doctor per 1,000	0.01
Death Rate during Child Birth (per 1,000)	6
Abortion (%)	3
RELIGIOUS	
Numbers of Pagoda/ Buddhist Temple	3/93
Numbers of Church	0
Numbers of Mosque	0
Numbers of Hindu Temple	0
Numbers of Chinese Temple	0
ENTERTAINMENT	
Numbers of Cinema	1
Numbers of Playground	5
Numbers of Park	2
Common Diseases and Occurrence Numbers	Malaria 33, Diarrheal 227, TB 444, Stomach Ailment64, Hepatitis 10

CHAPTER 4: SCOPING FOR INVESTIGATION OF INITIAL ENVIRONMENTAL EXAMINATION

4.1 Scoping for Initial Environmental Examination

The followings are the potential evidences and the degrees of impacts, which could arise at the time of project implementation for construction and operation of wire harness factory. The REA check list for this proposed project is also prepared. Rapid Environmental Check List (REA) for the proposed project is shown in Table 4.1-2.

Table 4.1-1 Results of Scoping

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
Pollution	Air Quality	B-	D	**DC:** Emissions from construction equipment, dust arising from construction and renovation activities, and air pollutants due to construction vehicles are anticipated. **OS:** Air pollution impacts will not be anticipated because there are no emission sources.
	Water Quality	B-	D	**DC:** Muddy water inflows to drainage from bare land of construction site may deteriorate water quality. **OS:** It is not anticipated that the factory may cause water pollution to the rivers, channels, and water sources in the surrounding area.
	Solid Waste	B-	D	**DC:** Generation of construction waste by construction activities and removal of structure are anticipated. **OS:** Impact on solid waste is not anticipated because there is good solid waste collection system.
	Soil Contamination	C	D	**DC:** It is necessary to confirm existing status soil contamination in the project area. **OS:** No activities causing soil contamination are anticipated.
	Noise / Vibration	B-	B-	**DC:** Noise and vibration from operation of construction machinery and on-site vehicles are anticipated. **OS:** Noise impacts will be anticipated because of using machine.
	Subsidence	D	D	Intake of underground water that cause subsidence are not anticipated.
Natural Environment	Natural Preserve	D	D	No natural preserve area exists in and around the project site.
	Flora/ Fauna	D	D	No impact on flora and fauna. The project site is within the industrial compound.
Social Environment	Involuntary Resettlement	D	D	The project site is within the industrial compound. The proper land acquisition has been done.
	Poor	B+	B+	**DC:** Job opportunity and commercial activities may be enhanced by construction works that lead the poor to increase their earnings. **OS:** By operation of the factory, local people from surrounding areas may get jobs and economical activities may be enhanced that leads poor to increase their earnings.
	Indigenous and Minor People	D	D	No indigenous and minority people are in and around the site.
	Local economy such as employment and livelihood	B+	B+	**DC:** There will be job opportunities for locals and the regional economy will be boosted. Moreover, the other local resources and food will be procured at the site. **OS:** The local economy and employment will be boosted with the improvement of the operation.
	Water Use	D	D	Because the project does not use water and domestic use for workers, no significant impact on water use is anticipated
	Cultural Heritage	D	D	The project site is located within the industrial zone, there might be no change to existing land and no impact to cultural heritage is anticipated.
	Gender	D	D	No negative impact on gender is anticipated.
	Working Environment	B-	D	**DC:** It is necessary to consider occupational safety and health during construction. Also, accidents to a third person are anticipated. **OS:** There are no significant negative impacts to labors at the operation stage.
Others	Accident	B-	B-	**DC:** It is necessary to consider accidents during construction. **OS:** It is necessary to consider accidents during construction.

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
	Global Warming	D	D	No significant impact is anticipated because the project is existing building expansion project, thus construction area is limited. In addition, the project does not include large scale deforestation which may cause global warming directly.

Evaluation: A-: Significant Negative Impact A+: Significant Positive Impact
B-: Some Negative Impact B+: Some Positive Impact
C: Impacts are not clear, need more investigation
D: No Impacts or Impacts are negligible, no further study required

Table 4.1-2 Results of Scoping

Rapid Environmental Assessment (REA) Checklist

Wire Harness

Instructions:

☐ This checklist focuses on environmental issues and concerns. To ensure that social dimensions are adequately considered, refer also to ADB checklists and handbooks on (i) involuntary resettlement, (ii) indigenous peoples planning, (iii) poverty reduction, (iv) participation, and (v) gender and development.

Country/Project Title: Initial Environmental Examination and EMP for Manufacturing of Wire Harness in Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township

Sector Division: Yangon Region

SCREENING QUESTIONS	Yes	No	REMARKS
A. Project Siting In this project area…	☐	☐	The project site is within the industrial zone
▪ Densely population?	☐	N	
▪ Heavy with development activities?	☐	N	
▪ Adjacent to or within any environmentally sensitive areas?	☐	N	
▪ Cultural heritage site	☐	N	
▪ Protected Area	☐	N	
▪ Wetland	☐	N	

▪ Mangrove	☐	N	
▪ Estuarine	☐	N	
▪ Buffer zone of protected area	☐	N	
▪ Special area for protecting biodiversity	☐	N	
▪ Bay	☐	N	
B. Potential Environmental Impacts Will the Project cause…..	☐	☐	
▪ Impairment of historical/cultural monuments/areas, and loss/damage to these sites?	☐	N	
▪ Hazard of land subsidence caused by excessive ground water pumping?	☐	N	For domestic use only
▪ Social conflicts arising from displacement of communities?	☐	N	No project affected persons, no relocation activity
▪ Conflicts in abstraction of raw water for water supply with other beneficial water uses for surface and ground waters?	☐	N	
▪ Unsatisfactory raw water supply (e.g. excessive pathogens or mineral constituents)?	☐	N	
▪ Delivery of unsafe water to distribution system?	☐	N	
▪ Inadequate protection of intake works or wells, leading to pollution of water supply?	☐	N	
▪ Over pumping of ground water, leading to Stalinization and ground subsidence?	☐	N	
▪ Excessive algal growth in storage reservoir?	☐	N	
▪ Increase in production of sewage beyond capabilities of community facilities?	☐	N	
▪ Inadequate disposal of sludge from water treatment plants?	☐	N	No waste water
▪ Inadequate buffer zone around pumping and treatment plants to alleviate noise and other possible nuisances and protect facilities?	☐	N	
▪ Impairments associated with transmission lines and access roads?	☐	N	
▪ Health hazards arising from inadequate design of facilities for receiving, storing, and handling of chlorine and other hazardous chemicals.	☐	N	Only wire harness industry
▪ Health and safety hazards to workers from the management of chlorine used for disinfection and other contaminants?	☐	N	
▪ Dislocation or involuntary resettlement of people	☐	N	
▪ Social conflicts between construction workers from other areas and community workers?	☐	N	Technology transfer and train to local people and local experts management after 3 years
▪ Noise and dust from construction activities?	Y	N	Short term for renovation of existing structure

▪ Continuing soil erosion/silt runoff form construction activities?	☐	N	
▪ Delivery of unsafe water due to poor O&M treatment processes (especially mud accumulations in filters) and inadequate chlorination due to lack of adequate monitoring of chlorine residuals in distribution systems?	☐	N	
▪ Delivery of water to distribution system, which is corrosive due to inadequate attention to feeding of corrective chemicals?	☐	N	
▪ Accidental leakage of chlorine gas?	☐	N	
▪ Excessive abstraction of water affecting downstream water users?	☐	N	
▪ Competing uses of water?	☐	N	
▪ Increased sewage flow due to increased water supply	☐	N	
▪ Increased volume of sullage (wastewater from cooking and washing) and sludge from wastewater treatment plant.	☐	N	Shall install water treatment unit

CHAPTER 5 INITIAL ENVIRONMENTAL EXAMINATION and ENVIRONMENTAL MANAGEMENT PLAN

5.1 Potential Environmental Impact Identification, Evaluation and Mitigation

The identification and evaluation of potential environmental and social impacts arising from proposed factory have been carefully conducted by considering the activities of proposed project versus current social and environmental conditions during construction and subsequent operational period.

Owing to the location, nature of project, the significant level of impacts are low as long as recommended mitigation measures are effectively and properly implemented and managed.

Initial Environmental Examination on manufacturing of wire harness project is predicted and evaluated based on the Project description, existing environmental setting. Table 5.1-1 is the results of the IEE on the potential impacts identified as A, B, and C by scoping.

Table 5.1-2 Results of IEE

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
Pollution	Air Quality	B-	D	**DC:** Emissions from construction equipment, dust arising from construction and renovation activities, and air pollutants due to construction vehicles are anticipated. But impact is short time and construction site is small area. **OS:** Air pollution impacts will not be anticipated because there are no emission sources.
	Water Quality	B-	D	**DC:** Muddy water inflows to drainage from bare land of construction site may deteriorate water quality. **OS:** It is not anticipated that the factory may cause water pollution to the rivers, channels, and water sources in the surrounding area.
	Solid Waste	B-	D	**DC:** Generation of construction waste by construction activities and removal of structure are anticipated. **OS:** Impact on solid waste is not anticipated because there is good solid waste collection system.
	Soil Contamination	D	D	**DC:** No impact on soil contamination. **OS:** No activities causing soil contamination are anticipated.
	Noise / Vibration	B-	B-	**DC:** Noise and vibration from operation of construction machinery and on-site vehicles are anticipated. **OS:** Noise impacts will be anticipated because of mainly indoor noise from machines.
	Subsidence	D	D	Using underground water that cause subsidence are not anticipated.
Natural Environment	Natural Preserve	D	D	No natural preserve area exists in and around the project site.
	Flora/ Fauna	D	D	No impact on flora and fauna. The project site is within the industrial compound.
Social Environment	Involuntary Resettlement	D	D	The project site is within the industrial compound. The proper land acquisition has been done.
	Poor	B+	B+	**DC:** Job opportunity and commercial activities may be enhanced by construction works that lead the poor to increase their earnings. **OS:** By operation of the factory, local people from surrounding areas may get jobs and economical activities may be enhanced that leads poor to increase their earnings.
	Indigenous and Minor People	D	D	No indigenous and minority people are in and around the site.
	Local economy such as employment and livelihood	B+	B+	**DC:** There will be job opportunities for locals and the regional economy will be boosted. Moreover, the other local resources and food will be procured at the site. **OS:** The local economy and employment will be boosted with the improvement of the operation.
	Water Use	D	D	Because the project does not use water and domestic use for workers, no significant impact on water use is anticipated
	Cultural Heritage	D	D	The project site is located within the industrial zone, there might be no change to existing land and no impact to cultural heritage is anticipated.
	Gender	D	D	No negative impact on gender is anticipated.

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
	Working Environment	B-	D	**DC:** It is necessary to consider occupational safety and health during construction. Also, accidents to a third person are anticipated. **OS:** There are no significant negative impacts to labors at the operation stage.
Others	Accident	B-	B-	**DC:** It is necessary to consider accidents during construction. **OS:** It is necessary to consider accidents during construction.
	Global Warming	D	D	No significant impact is anticipated because the project is existing building expansion project, thus construction area is limited. In addition, the project does not include large scale deforestation which may cause global warming directly.

5.1.1 Impact to Flora and Fauna

The proposed project area has been designated as industrial zone and the location of factory is already cleared and filled with surplus earth. There is no prominent vegetation or fauna species exist within the fenced area. Hence, no potential impact to flora and fauna by the project activities is anticipated.

5.1.2 Impact due to Sewage Treatment and Disposal (construction and operation)

A proper sewage treatment unit shall be installed at the facility. Only the overflow of sewage which meets the effluent standard of internally practice, shall be discharged into the drainage. The remaining sludge inside septic is to be removed by contractor or city development service and finally transported to the waste water treatment. If the unit is effective and disposal service is running smoothly, there is no potential issue due to the sewage discharge of the facility is expected.

5.1.3 Industrial Waste Water (construction and operation)

The proposed factory is CMP basic production and no large quantity of chemical is intended to use and consequently no industrial waste water is anticipated to discharge.

5.1.4 Impact to surface water and groundwater quality

The construction and operation of the factory will not have any major impact to surface water and groundwater quality as mentioned adequate design and control measure are effectively managed and implemented. The surface runoff, waste management and spill containment plans are recommended to ensure that no spills or contaminated water released into the nearest water body.

5.1.5 Impact to Community and Employees Health by Dust Emission

The source of dust generated during the construction of the proposed project are probably production area, vehicle movement in exposed land and soil stockpile area. For the dust control measures, company is intended to use proper dust collector, vacuum cleaner, and screen at the source of dust creating device and activities. By applying these control measures, it is evaluated that the dust emission of the factory

is not likely to become significant issue and any impact related to the dust emission is negligible. Planting the tree is other consideration as those act as screen by hindering the movement of the dust.

5.1.6 Impact to Community and Employees Health by Noise

The movement of vehicles, transportation of material, machine operating in production line, cutting, grinding are the major sources of noise in the general industry. Noise is the unwanted nuisance that could impair the hearing ability of people in the situation that excessive noise level exposes repeatedly or continuous to the workers and community.

For the project in construction stage, major work shall take place in day time. Given the short duration of factory construction and machine foundation, the resulting noise impact is classified moderate in significant level, with the need of additional mitigation measures so as to attenuate the exposure to the local community and employees.

- Low noise emitting device/machine shall be used
- Vehicle/ engine are to be turned off while not in use
- High noise inducing activities shall be avoided in nigh time
- PPE for the workers working in noisy area
- Corrective action to take immediately if noise level is higher than occupational exposure limit

By providing these measures, it is predicted ambient noise level meet in occupational threshold limit at all times.

There is no ambient noise standard to receptors in Myanmar. However, most of the countries in south-east Asia have the ambient noise standard to receptors categorized land use or requirement of quiet as well as in Japan. International standard is also available in the EHS Guidelines prepared by IFC. Table 5.1.6-1 shows the target noise level and follows this standard in operation of garment factory.

Table 5.1.6-1 Ambient Noise Standard at Operation Stage in South-East Countries

Items		Day time (Leq)	Night time (Leq)
Indonesia	Noise standard for sensitive areas such as residences, hospitals, schools, places of religious worships	55 dB	
	Noise standard for office and commercial	65 dB	
	Noise standard for commercial and service	70 dB	
Malaysia	Sensitive Areas/ Low Density Residential Areas	55 dB (7am – 10pm, 15hrs)	50 dB (10pm – 7am, 9hrs)
	Sub Urban Residential	60 dB (7am – 10pm, 15hrs)	55 dB (10pm – 7am, 9hrs)
	Urban Residential	65 dB (7am – 10pm, 15hrs)	60 dB (10pm – 7am, 9hrs)
	Commercial and Business	70 dB (7am – 10pm, 15hrs)	60 dB (10pm – 7am, 9hrs)
Singapore	Sensitive Areas	60 dB (7am – 7pm, 12hrs)	55 dB (7pm – 10pm, 3hr) 50 dB (10pm – 7am, 9hr)
	Residential Areas	65 dB (7am – 7pm, 12hrs)	60 dB (7pm – 10pm, 3hr) 55 dB (10pm – 7am, 9hr)
	Commercial Areas	70 dB (7am – 7pm, 12hrs)	65 dB (7pm – 10pm, 3hr) 60 dB (10pm – 7am, 9hr)
Thailand	Noise standard	70 dB (24hrs)	
Japan	Sensitive Area (Class AA)	50 dB (6am – 10pm, 16hrs)	40 dB (10pm – 6pm, 8hrs)
	Residential Area (Class A and Class B)	55 dB (6am – 10pm, 16hrs)	45 dB (10pm – 6pm, 8hrs)
	Commercial and Industrial Area (Class C)	60 dB (6am – 10pm, 16hrs)	50 dB (10pm – 6pm, 8hrs)
IFC	Residential; institutional, educational	55 dB (7am – 10pm, 15hrs)	45 dB (10pm – 7am, 9hrs)
	Industrial; commercial	70 dB (7am – 10pm, 15hrs)	70 dB (10pm – 7am, 9hrs)

Source: Nose Standard in Indonesia (KEP-48/MENLH/11/1996)
Effect of Traffic Noise on Sleep: A Case Study in Serdang Raya, Selangor, Malaysia, Environment Asia, 2010
Environmental Protection and Management Act in Singapore (Chap.94A, Section 77, revised in 2008)
Notification of Environmental Board No. 15 B.E.2540(1997) under the Conservation and Enhancement of National Environmental Quality Act B.E.2535 (1992) dated March 12, B.E.2540 (1997) and Notification of Pollution Control Department ; Subject: Calculation of Noise Level Dated August 11, B.E. 2540 (1997) in Thailand

5.1.7 Fire Hazard

Improper storage, handling, transferring of fuel including bunker, diesel, gasoline could create major fire event that might in turn, develop injured to people, loss of life, damage to property, equipment of company and community living adjacent to the project site.

The proposed project is expected to be using generators for electrical power if the power is not available from national power grid. If it is the case, large amount of diesel and/or petrol could be stored and consumed for power supply in the factory facilities.

Despite the fact that storage facility and its fuel tank (over ground or underground) design remain unknown during the preparation of this report, following additional fire protection measures are recommended to adopt in considering of the fuel tank design, lay out plan of project and quality of device.

- Fuel tanks are to be constructed in accordance with international best practices.
- Fuel tanks shall be located in a safe distance from the possible ignition sources.
- Prevailing wind direction is to consider in the allocation of the tanks
- Fire safety plan and emergency management plan shall be set up.
- Rated electrical equipment /appliance are to be purchased.
- Electrical safety procedure has to be developed and incorporated into the project safety management system.
- Good housekeeping shall be maintained in the life of project
- Fire suppression system shall be facilitated.

- Appropriate training programs are to be set up and given to the employees such as fire safety, safe handling of fuel, advance firefighting.

5.2 Potential Social Impact Identification, Evaluation and Mitigation

The proposed factory is located in the industrial zone and it is also surrounded by houses of local residents. The social issues likely to cause due to the interaction between project activities and existing local community have been predicted by considering the various aspects of social receptors.

5.2.1 Land Use and Resettlement

The industrial zone is established with the purpose of development of industrial infrastructure by Yangon Regional Government. Since there is no household inside the compound, relocation and resettlement process are not involved in this project. For that reason, there is no Project Affected Peoples (PAPs) as well as there is no negative impact on socio-economic status of the indigenous people.

5.2.2 Culture Site

There is no historical, archaeological, historical and cultural important sites are located inside the industrial zone. Consequently, the impacts on these issues are not envisaged.

5.2.3 Positive Impact on Employment and skill

There will be more employment opportunities resulting from the existence of project. Hiring local people for semi –skilled and non –skilled work shall bring the beneficial aspect to local community and increase the income of individual family. The prospect of an increased income and greater autonomy is likely to cause an increase in the aspirations of local communities both those involved with the project and, to a lesser extent, those from other working individually. This is a direct positive effect with a moderate extent and long-term duration. As consequence, it is considered as a major beneficial impact resulted from the project.

In order to attain the benefit to local community, project should prioritize in hiring local people based on nearest villages and wards, while employing workers required both construction and operation period. The use of children as laborers shall be avoided. Some vocal training as per the requirement of the jobs should be organized. Such activities shall enhance the skill and knowledge of people and consequently improve the living standard of community. It is perceived that organizing capacity building training will be beneficial effects to community along with securing their income and stabilizing the family status.

5.2.4 Impact to Community Health, Safety, and Hygiene

Impacts of the project on public health are likely to arise from construction and operation. There will be a potential for diseases to be transmitted, exacerbated by inadequate health and safety practices. Company will therefore be required to recruit an environmental, health and safety personnel to address environmental, health, and safety concerns in the factory. Regular medical checkup is suggested to give to all employees working within the premise of factory. As a part of corporate social responsibility, company should consider giving voluntary medical services to the local people.

5.2.5 Impact to community life style

The industrial zone is located closed to the local village area. As a result, there will be increased social interactions between factory and local community.

The more interaction between those two parameters can improve the social cohesion. On the other hand, it might let lead to develop unnecessary crime and antisocial behavior within the community. The expected social issues include social misconduct. As a mitigation measures, company shall develop the policy relating to social code of conduct for its employees mentioning how to deal with local people and how to treat them antisocially accepted manner.

5.2.6 Impact to local business

One of the foreseeable beneficial impacts is the improvement of local business due to the existence of the factory and its activities. Local shop and restaurant shall be benefited for the project by purchasing necessary items including food stuff.

In order to strengthen this beneficial effect, company purchasing policy should be local oriented and company employees are encouraged to source the purchased items locally. Food and other personal used staff should be bought at the local shops.

5.3 Environmental Management Plan

The project categories (based on ADB or JICA guideline) evaluated as A, B or C according to the result of the impact assessment, and mitigation for both construction stage and operation stage are shown in the tables below.

(1) During Construction

Table 5.3-3 Environmental Management Plan for SJY Shoe Factory (During Construction)

Category	Item	Stage	Mitigation	Implementing Organization	Responsible Organization
Pollution	Air Quality	During Construction (DC)	- Spraying of water in construction area - Limited speed and covering of materials during transportation for construction materials - Protective equipments for workers - Regular check and maintenance of vehicles and construction equipments	Contractor	HSE Department
	Water Quality	DC	- The fuel storage and vehicle cleaning area will be stationed such that runoff from the site does not drain into the water body. - Oil interceptors will be provided at construction vehicle parking area, vehicle repair area and workshops ensuring that all wastewater flows into the interceptor prior to its discharge. - The work site will be cleaned and restored to pre-project conditions.	Contractor	HSE Department
	Solid Waste	DC	- Utilization of construction soil, - Appropriate disposal of removed materials	Contractor	HSE Department
	Noise / Vibration	DC	- Carry out loud construction activities during day time - Restriction of time to implement constriction activities	Contractor	HSE Department
Social Environment	Working Environment	DC	- Thorough education to labors and enlighten activity. - Distribution of safe equipment	Contractor	HSE Department
Others	Accident	DC	- Thorough education to labors and enlighten activity. - Distribution of safe equipment	Contractor	HSE Department

(2) Operating Stage

Table 5.3-4 Environmental Management Plan for SJY Shoe Factory (Operating Stage)

Category	Item	Stage	Mitigation	Implementing Organization	Responsible Organization
Pollution	Air Quality	Operation Stage (OS)	- Air pollution monitoring plan	HSE Manager	HSE Department
	Noise	OS	- Implementation of regular noise monitoring in and around factory	HSE Manager	HSE Department
Natural Environment	Greening Area	OS	- Plantation and gardening along the fence	HSE Manager	HSE Department
Social Environment	Existing Infrastructures and services	OS	- Planning for CSR program and establish the Fund for donation and other social activities	HSE Manager	HSE Department

5.4 Environmental Management at Denso Industry

5.4.1 Our Principles for Environmental Practice

We, DENSO INDUSTRY, acknowledge that it is our mission to pass on the healthy global environment to the next generation by eliminating the negative legacy for the earth's future. Hence, we make our best efforts to protect and improve the global environment through our business activities.

5.4.2 Environmental Policy

Under our slogan "practice the eco-friendly business," we focus on the comprehensive environmental protection in our daily business activities centered on manufacturing, assembling and distributing of electronic components (harness).

We set the following policy to promote our environmental activities, including improving in-house work environment and greening all products made by us, and to keep track of the state of achievement.

1. We stay conscious of the environmental impacts that may be caused by our business practices, products and services. We make the best possible efforts to take preventive measures for environmental contamination and to promote our environment conservation activities as well as to make continuous improvements to our environmental management system.

2. We comply with all environmental laws and regional regulations relating to our business activities as well as the industry-specific agreements. Also, by setting our own standard, we make utmost efforts, both technically and financially, to promote improvement in our business activities.

3. We conduct in-house education and training programs to raise employees' awareness about the environment conservation as well as to enrich their understanding of our environmental policy. We pursue our environmental improvement activities by articulating specific measures and policies.

4. We observe and supervise the environmental conservation activities and the environmental quality control systems of the group companies.

5. To adhere to this environmental policy, we set clear objectives and periodically review them. We promote the environmental activities on a company-wide level including our subcontractors.

The following Figure is showing environmental management structure of the company.



Figure 5.4.2-1 Institutional arrangement of Denso Industrial Asia Col., Ltd.

CHAPTER 6 ENVIRONMENTAL MONITORING PLAN

6.1 Environmental Monitoring Plan

Concerning about the items of impacts for both during construction stage and operation stage, current monitoring items, frequency, spot and responsible organization are shown below. Ministry of Environmental Conservation and Forestry (MOECAF), the responsible institution is planned to be a report destination.

Table 6.1-5 Monitoring Plan of the Proposed Project

Survey item	Item	Spot	Frequency	Responsible Organization
[During Construction]				
Common	- Monitoring of mitigation measures	-	Once/month	HSE Department
Solid waste	- Record of waste generated (Number and receiving place)	Factory Compound	Daily	HSE Department
Noise	- Complaints from residence	Factory Compound	Daily	HSE Department
Working Environment	- Prehension of condition of occupational safety and health	Factory Compound	Daily	HSE Department
Accident	- Accident record	Factory Compound	As occasionally	HSE Department
[Operation Stage]				
Common	- Monitoring of mitigation measures	-	Once/3 months	HSE Department
Air Pollution	- SO_2, NO_2, CO, TSP, PM10	Factory Compound	Once/1 year	HSE Department
Noise	- Traffic volume, Noise	Factory Compound	Once/1 year	HSE Department
Accident	- Existence of accident	Factory Compound	As occasionally	HSE Department

6.2 Implementation system for Environmental Monitoring Plan and Mitigation Measures

As for implementation system for environmental monitoring and mitigation plan, Health, safety and environment (HSE) department will be formed by project proponent and MOECAF will become responsible institution for receiving Environmental Management Plan (EMP) report. HSE manager is in charge of monitoring and preparation of its results. The Developer will submit the monitoring report at operation phase to MOECAF or Industrial Zone Management Committee. The estimated budget for environmental monitoring and CSR program is shown in Table 6.2-1.

Table 6.2-1 Estimate budget for Environmental and Social Monitoring

Item	Cost (USD) per year
1. Cost of environmental monitoring programme	26,500
2. Other CSR activities (athletics, education prizes, charities etc.)	15,400

CHAPTER 7 STAKRHOLDER MEETING

7.1 Stakeholder Meeting and Participation process

Stakeholder meeting was held in 26th April 2014. The Interviews were made between the project stakeholders, the General Administrative Officer and Heads and Elderly persons of the Industrial area. The stakeholder meeting was held in the Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township, Yangon Region. The detailed of meeting schedule, attendees and record of meeting minute are described below.

Table 7.1-1Focus Group Meetings

No.	Date	Name of town/Village	Participation	Arranged by
1	26.04.2014	Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township	Administrator, AGD, Elderly Persons of Industrial Area and REM	REM Co. Ltd.

Denso Industry Asia

IEE of Manufacturing for wire harness

Stakeholder Meeting Minutes

Date: : 26.4.2014 (Saturday)

Time: : 10:00 am – 11:30 am

Place: : Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township, Yangon Region.

Mr. Mishima (Project Manager, Denso Company) greeted that thank you for attending this meeting. Firstly he explained about company.

Our main office at Yokohama in Japan since 1958 and factory projects were extended from 1958 to 2012.

Our products are small electrical wire harness and that are used for cable in TV, DVD, Digital Camera, Computer, TV Game and Video Camera.

Our factory had got ISO 14001 and 9001 and green card from Sonny.

We conserved the natural environment. Main office in Tokyo which produce small cable for robot. He is working in Hong Kong main office.

Kan Tone office in China had 1000 employee and 600 employee worked in Shanhai office. This two office in China produced micro cables in TV Game.

We had already built and produced each two factories in China and Japan.

At last, We chose Myanmar because of our main customers are South East Asia stock and near to transport this countries. So we decided to built factory in Myanmar.

Nikkon Camera produced from Thailand and Sony from Malaysia.

Field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc. since 2010. The final decision was Myanmar, where our business can achieve rapid development. We chose Myanmar because of three facts. These are:

(1) We think that Myanmar is Buddhism Country so that Myanmar people have good morality. Since 2010, field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc…The final decision was Myanmar, our business can achieve rapid development and high quality labour Force.
(2) We hope that positive attitude of Improvement on infrastructure, logistics, investment promotion in Myanmar.
(3) We think that more improve Enthusiasm in unifying the system of tax and legislation between public and private sectors in Myanmar Country.

Five facts for investment

1. Facilities investment (electronic component processing large-scaled Machinery) We will import five machines in 2015 and also reported to MIC 28 machines will import.
2. Human Resources Investment. (Japanese technician will train to Myanmar labours)
3. As capital investment (USD 800,000, USD 2,000,000 authorized)
4. Environmental Investment, we got ISO and Systematization of environmental regulations)
5. Education Investment: we choose hard worker and to send Japan for training.

Summarize the 20 years' experienced of factory operations in China, an inexperienced person can be trained into a well-skilled person through systematic guidance.

The two existing factories in China are size of from 500 to its maximum. We hope to use 1200 employees and create a lot of job opportunities in the future.

Our schedules are Factory contract with Shwe Lin Ban Industrial Zone in January, 2014. To report the MIC application in February, 2014. In June, we will Start of facilities import and import of material in July, 2014. We will start of operation in August, 2014 and product will export in September, 2014.

Our principle of investment are maintaining the employment, to gain profit rapidly and aiming at the expansion of the enterprise scale. To achieve a stable and sustainable management through the provision of welfare policy. To support the further development of Myanmar through the continuing social and economical contribution.

And then, Daw Pwint Pwint (Resource & environment Myanmar Co., Ltd.) demonstrated about IEE by power points.

Denso Industry Asia				
ဆွေးနွေးပွဲတက်ရောက်သူများစာရင်း				
စဉ်	အမည်	ရာထူး	ဌာန	လိပ်စာ/ ဖုန်းနံပါတ်
၁	ဦးမျိုးမင်းသန့်	တာဝန်ခံ	ရွှေလင်ပန်းရပ်ကွက်	အမျတ်(၂၃၉)ရွှေလင်ပန်းရပ်ကွက်
၂	ဦးအောင်သန်း	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	(၅၉၇)၊ ခရေ(၂)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၃	ဦးကျင်ရွှေ	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	(၅၉၇)၊ ခရေ(၂)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၄	ဦးဝင်းထွန်း	အုပ်ချုပ်ရေးမှူး	ကစင်(၂၃)ရပ်ကွက်	မ-၁၉၄၀ ကျန်စစ်သားလမ်း၊ကစင်(၂၃)
				၀၉-၄၂၀၁၈၆၄၆၄
၅	ဦးအောင်ကြည်	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၆	ဦးကျော်ရွှေ	ဆယ်အိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၇	ဦးဘခင်	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၈	ဦးပြည့်ဖြိုးကျော်	စီမံခန့်ခွဲရေးရုံး	ရွှေလင်ပန်းရပ်ကွက်	ရွှေလင်ပန်းစက်မှုဇုံကော်မတီ ၀၁-၆၁၃၅၀၁
၉	ဦးမျိုးဇော်	စီမံခန့်ခွဲရေးရုံး	ရွှေလင်ပန်းရပ်ကွက်	ရွှေလင်ပန်းစက်မှုဇုံကော်မတီ ၀၁-၆၁၃၅၀၁
၁၀	ဦးရဲမြင့်ဦး	ဆယ်အိမ်မှူး	ရွှေလင်ပန်းရပ်ကွက်	၂၆/ရွှေပဒေသာ(၂)လမ်း၊ ၀၉-၄၂၀၂၀၅၆၃၉
၁၁	ဦးမင်းသူ	ရာအိမ်မှူး	ရွှေလင်ပန်းရပ်ကွက်	၂၆/ရွှေကန်သာလမ်း၊ ၀၉-၃၁၀၈၈၃၀၂
၁၂	ဦးကျော်သိန်း	ဆယ်အိမ်မှူး	ရွှေလင်ပန်းရပ်ကွက်	၂၆/၆၀၊ ရွှေမြင့်မိုရ်လမ်း၊၀၉-၃၁၃၀၈၂၃၃
၁၃	ဦးမင်းသိန်း	ဆယ်အိမ်မှူး	ရွှေလင်ပန်းရပ်ကွက်	၀၉-၇၃၀၅၇၇၀၀
၁၄	ဦးမြင့်လှိုင်	အုပ်ချုပ်ရေးမှူး	ရွှေလင်ပန်းရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၅	ဦးအောင်ဝင်း	ဆယ်အိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၆	ဦးကြည်အေး	ရာအိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၇	ဦးကျော်ဇင်ဝင်း	Director	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၁၈	ဒေါ်ပွင့်ပွင့်	Senior Consultant	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၁၉	ဒေါ်ခတ္တာစိုး	Social Team	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၂၀	ဦးဒီလှိုင်းဇော်	staff	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၂၁	Mr.Mishima	General Manager	Denso Industry Asia	Hongkong

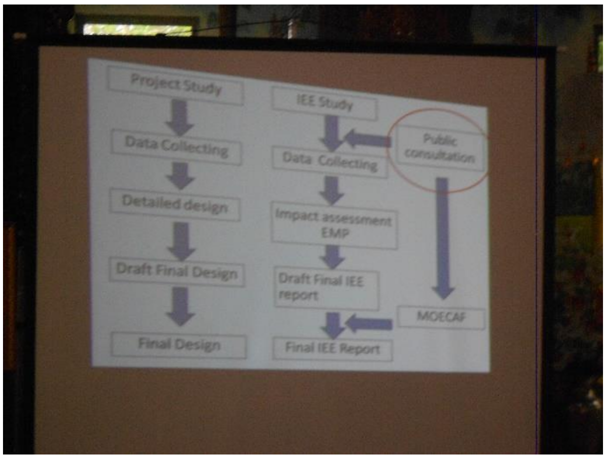
Stakeholder Meeting Photos













7.2 Environment Categorization of the Project

According to the directions by Myanmar Investment Commission Notification No. 1/2013: Stipulation of Type of Economic Activities (31 January 2013) described list of economic activities which are allowed in accordance with certain separately stipulated conditions and list of economic activities which are allowed with the Ministry of Environmental Conservation and Forestry (MOECAF)'s

recommendations. The restriction indicates "depending upon the business activity, to avoid environmental and social impacts, or to minimize the environmental and social impacts, it will be allowed only after conducting the initial study and assessment upon environmental and social impacts." Present Initial Environmental Examination assessed the potential impacts and ways to mitigate the negative impacts as well as to enhance the positive impacts.

For the sustainability policy, Asian Development Bank (ADB) uses a classification system to reflect the significance of a project's potential environmental impacts. A project's category is determined by the category of its most environmentally sensitive component, including direct, indirect, cumulative, and induced impacts in the project's area of influence. Each proposed project is scrutinized as to its type, location, scale, and sensitivity and the magnitude of its potential environmental impacts. Projects are assigned to one of the following four categories:

(i) **Category A.** A proposed project is classified as category A if it is likely to have significant adverse environmental impacts that are irreversible, diverse, or unprecedented. These impacts may affect an area larger than the sites or facilities subject to physical works. An environmental impact assessment is required.

(ii) **Category B.** A proposed project is classified as category B if its potential adverse environmental impacts are less adverse than those of category A projects. These impacts are site-specific, few if any of them are irreversible, and in most cases mitigation measures can be designed more readily than for category A projects. An initial environmental examination is required.

(iii) **Category C.** A proposed project is classified as category C if it is likely to have minimal or no adverse environmental impacts. No environmental assessment is required although environmental implications need to be reviewed.

(iv) **Category FI.** A proposed project is classified as category FI if it involves investment of ADB funds to or through a FI (paragraphs. 65-67).

According to above classification, present project is in the **Category B** which requires an initial environmental examination (IEE) that has already been conducted by the consultant team.

7.3 Conclusion and Recommendations

It is expected that the proposed electric wire harness Project has only minor negative impacts on Physical, Biological, Socio-economical and Cultural Environment. The impacts are mostly local in nature and insignificant. These impacts can be easily mitigated through adequate mitigation measures and regular monitoring during the Construction and operation Phase of the project.

The implementation of the proposed project will create a lot of beneficial and positive impacts in Physical, Biological and largely on Socio-economic environment. Significant improvement in local to

community economy is expected. This will finally enhance the living quality of people of the sub-project area.

From this IEE, it can be seen that no adverse or harmful impacts of any significance are expected and so a full scale EIA is not required. The project falls under the Category B of ADB's Guideline for which only IEE is required.

The IEE with the recommended institutional requirement and environmental monitoring plan becomes the completed EIA.

APPENDIX -1

Products

CASTING

C370A

AWG#10(5.5sq)～AWG#32(0.03sq)

量産に適した速さと、生産力の高さをコンパクトなボディで再現。
もちろん多品種ロット生産にもその威力を発揮します。



製品仕様

型 式		C370A
外形寸法		幅430mm×奥行450mm×高さ270mm
重 量		26kg
電 源		AC100V～AC240V(単相)50Hz/60Hz
消費電力(100V)		50W(定格)250W(最大)
カッティング長さ		0.1mm～99,999mm
カッティング公差		±(0.1＋0.0005×L)mm※2 Lは切断長さ
ストリップ長さ	先端	0.1～30mm
	後端	0.1～30mm
加工可能ワイヤー	種類	AVSS,VSF, IV, KV, UL,テフロン，ガラス線等
	サイズ	AWG#10(5.5sq)～AWG#32(0.03sq)※2
	外径	最大 Max φ6mm※2
ワイヤー送り速度		可変可能
刃の材質		超微粒子合金
動 力		ステッピングモータ/エアーシリンダー

※2 但し、線材によります。

加工能力（1時間あたりの加工本数）

全 長	本 数
50mm	10,500
100mm	10,300
200mm	9,100
300mm	8,700
500mm	7,600
800mm	6,400
1000mm	5,800
1500mm	4,700
2000mm	3,900
3000mm	3,000

加工条件

両端 3mmストリップ
加工速度：9
細線モード
電線：UL1007／AWG#22

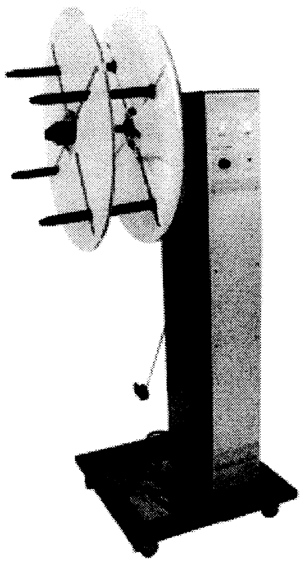
KOEI ORIGINAL

ボビンフィーダー。ボビンとテープ電線の低コスト型。

電線繰り出し機

電線繰り出し機

ボビンとテープ電線の低コスト型



電線繰り出し機
HK-007

特長

- パワフルインバーター搭載電線繰出し機。
- 海外向け220V対応も可能。
- バックテンションを最小限に抑えます。
- ヨリを取り絡ませず最後迄スムーズに取り出せます。
- オプション搭載にて平行線テープ電線の供給機としても使用可能です。
- 右→左、左→右、両サイドの3機種があり、相手の機械を選びません。

仕様

電線繰りだし機 : HK-007

製品名	電線繰り出し機
型式	HK-007
電圧	100V 50/60Hz ※220Vも対応可
外形寸法	W825 × L400 × H930 mm
重量	31kg

エム・シー・エム　Cosmic 927R　お問い合わせ　価格

超精密のロータリーブレードで高品質なストリップが可能



機能設定

- ツイスト: 有り／なし
- ブレード回転方向: 左／右回転
- 始動方式:タッチセンサー／フットスイッチ切り替え
- カッティングタイム: 無段階ダイヤル調整
- 切り込み径: デジタル表示

仕様

品　名	Cosmic 927R
適用電線	AWG36～10
ストリップ長	1～25.0mm
セミストリップ長	最小2.0mm～
ストリップ長設定単位	1mm
切り込み径設定単位	0.01mm
サイクルタイム	1.5sec／MAX
ブレード／材質	2枚刃／超硬
電源	AC100～240V, 60VA
外形寸法	W131×D 400×H218mm
重量	8kg

APPENDIX -2

QC Documents

Q C Flow Chart

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⨉		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
1	Raw Material Flow In Inspection	QC Div		PN Qty Visual Packing	Supplier Guarar	Sampling	IQC Inspector	Visual	IQC Inspection Report (DGDS-QC-R001)	QC Div Div PIC	Wires/Cables Inspection Manual (DGDS-SB-003) Terminals Inspection Manual (DGDS-SB-004) Connector Inspection Manual (DGDS-SB-001) IQC Work Instruction (DGDS-WI-QC-003)
			Straight Ruler Vernier caliper Magnifier	PN Spec	Supplier Spec	managing checking					
			Data Bank (IQC Flow in Spection)		ICP Reading MSDS	every time					
2	Material Keeping	Material Div	Thermometer	Humidity Temperature	25±10degree 20%～85%	3times/day	Warehouse PIC	Visual	Humidity/Temp (DGDS-MC-R021)	Material Div Div PIC	Flow in Manual (DGDS-WI-MC-002) Flow out Manual (DGDS-WI-MC-003) Material storing Work Instruction (DGDS-WI-MC-005)
	Material, Part Flow Out		Measuring instrument (Electronic scale)	Qty		everytimes		Flow out Instruction Sheet			
3	Automated Single Sided Crimping	Production Div.1	Fully Automated Crimping Machine Aplicator Height Measurer Straight Ruler	Height stripping length terminals condition	Work Instruction Sheet	3pcs before produ 1 per 5k pcs	Div Pic	Visual	Auto Machine Daily Rep (DGDS-K-06-02) Work Instruction (DGDS-PD-R034) Attendance	Production Div. 1 Div PIC	Fully Auto Crimping (TR) (DGDS-WI-PE-292)
			Height Measurer Straight Ruler	Height Span Size Length	Drawing	1pcs/lot	Insector				Crimping visual check work instructi (DGDS-SB-013) pulling test work instruction (DGDS-WI-PD-179)
			Magnifier Pulling tester	Crimping Condition Pulling test	No Abnormality	1pc before produc 1pc after producti	Div Pic Inspector	Visual	inspection work instruction (DGDS-PD-R036)		inspection work instruction (DGDS-PB-003)
4	Checking on Crimping Condition		Magnifier	Deep crimping Sharrow crimping Crimping before stripping	No Abnormality	3pcs/lot	Div Pic	Visual		Production Div. 1 Div PIC	visual check work instruction (DGDS-SB-013)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
				terminals deform pin deform conductor defect stripping defect rusty terminals							
5	wire packing	Production Div.1		Qty	2,500pcs/box	sampling	Div Pic	Visual	machine daily report (DGDS-K-06-02) Attendance working instruction (DGDS-PD-R034)	Production Div. 1 Div PIC	Fully Auto Crimping (TR) (DGDS-WI-PE-292)
6	Middle Inspection	QC Div	Height Measurer Straight Ruler Magnifier	Height Measurement crimping condition	No Abnormality	1pc/lot	Middle Inspector	Visual	Half finished goods sampling report (DGDS-QC-R006) Daily Report Work Insturction	QC Div Div PIC	Middle Check Manual (DGDS-PB-005) Crimping Visual Check Manual (DGDS-SB-013) Middle check standard (DGDS-WI-QC-015) sampling sheet (DGDS-WI-QC-001)
			Magnifier	Deep crimping Sharrow crimping Crimping before stripping terminal deform Pin change shape conductor defect stripping defect Rusty terminals	No Abnormality	Full qty					
7	R side conductor twist for soldering	Production Div. 2	paper	stripped portion alignm	No Abnormality	Full qty	Div Pic	Visual		Production Div. 2 Div Manager	alignment work instruction (DGDS-WI-PD-031)
8	R side soldering		solder pool temperature	temperature	270～330℃	3 times/day	Inspector	Visual	soldering inspection shee (DGDS-PD-R017)	Production Div. 2 Div Manager	soldering work instruction (DGDS-PB-001)
9	R side soldering inspection		Magnifier	sodering defects conductor defects	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div Manager	soldering inspection work instructio (DGDS-WI-PD-054) inspection work instruction (DGDS-PD-R008)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

Production Div.1	Completed by	Confirmed by	⇒	Production Div	Confirmed by	Confirmed by	⇒	QC	Approved by	⇒	Document Control Center	Registered by
	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄			電創 2012.05.31 新 庄	電創 2012.05.31 王建南			電創 2012.05.31 吴海容			電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
10	R side drying		drying box	drying time temperature humidity	 30～50℃ 50℃below	above 2 hrs	Div Leader	Visual	drying box temperature ((DGDS-PD-R0041-3)	Production Div. 2 Div Manager	
11	Middle Inspection	QC Div	Height Measurer Straight Ruler Magnifier	Height Measurement crimping condition	No Abnormality	1pc/lot	Middle Inspector	Visual	Half finished goods sampling report (DGDS-QC-R006) Daily Report Work Insturction	QC Div Div PIC	Middle Check Manual (DGDS-WI-QC-005) Crimping Visual Check Manual (DGDS-SB-013)
			Magnifier	Deep crimping Sharrow crimping Stripping defects terminals deform pin deform wire defects	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025					
				soldering defects insulator defect	No Abnormality	1pc/lot					soldering work instruction (DGDS-WI-PD-037)
12	Insert black wir	Production Div. 2		incomplete inserting wires defects terminals deform	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	single side inserting work instructior (DGDS-WI-PD-284)
13	Connectivity		Magnifier	wrongly insert wires broken	No Abnormality	Full qty	Div Pic	Connectivity	inspection sheet (DGDS-PD-R008) daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	Connectivity work instruction (DGDS-PB-011)
14	Insert red wire			incomplete inserting wires defects terminals deform	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	single side inserting work instructior (DGDS-WI-PD-284)
				wire defect							

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE： 1 ／ 3

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艶	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艶

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
◇15	connector inspection		Magnifier	connector deform connector defects incomplete inserting Rusty terminals terminals deform	No Abnormality	Full qty	Inspector	Visual	inspection sheet (DGDS-PD-R008) daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	visual connecotr inspection work instruction (DGDS-WI-PD-021)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

	Completed by	Confirmed by	⇒		Confirmed by	Confirmed by	⇒		Approved by	⇒		Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄		Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南		QC	電創 2012.05.31 吴海容		Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⋈		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 3 ／ 3

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
16	Packing	Production Div. 2	Electrical Scale	aty	No Abnormality	200pcs/bag	Div Pic	Visual	daily report (DGDS-PD-R005) work instruction	Production Div. 2 Div PIC	packign work instruction (DGDS-WI-PD-046)
17	Finished goods checking	QC Div	Magnifier	Deep/sharrow crimping terminals deform Rusty terminals incomplete inserting stripping length conductor defects wire inserted wrongly connector defects	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025	IQC Inspector	Visual	Finished goods sampling check report (DGDS-QC-R004) dailry report (DGDS-QC-R003) work instruction	QC Div Div PIC	Finished goods check work standard (DGDS-WI-QC-016) Finished goods check work instructi (DGDS-WI-QC-005) sampling sheet (DGDS-WI-QC-001) crimping visual check inspection sta (DGDS-SB-013) incompleted insert checking standar (DGDS-SB-014)
				soldering defects twisting defects	No Abnormality	1pc/lot					
			Straight Ruler	length stripping length							
18	Out flow packing	Production planning	Electrical Scale	Quantity	No Abnormality	200pcs/bag	Flow out Inspect	Visual	Packing record (DGDS-PC-R004) incoming record work instruction	Production Plann Div PIC	Packing manual (DGDS-WI -PC-001) scale checking work instruction (DGDS-PC-R022-1)
				Quantity of carton		same as Packing List					

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⋈		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
									shipping daily report scale checking record (DGDS-PC-R023)		work instruction for shortage (DGDS-PB-004)
19	Out flow check	QC Div		Part number Quantity LOT Label	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025 same as Packing List	QC flow out Inspector	Visual	Outflow check report (DGDS-QC-R019) work instruction	QC Div Div PIC	Outflow packaging check manual (DGDS-WI-QC-006) shipping check list (DGDS-WI-QC-020) finished goods inspection work instruction (DGDS-WI-QC-016)
20	Product storage (waiting for shipment)	Production Planning Div					Flow out PIC	Visual	packing record sheet (DGDS-PC-R004)	Production Planning Div PIC	

Summary

Denso Industry Asia Co. Ltd., has planned to establish a manufacturing for wire harness on CMP basic in Shwe Lin Ban Industrial Zone, Hlaingtharyar Township, Yangon Region, Myanmar. The finished products would be distributed to local and international market.

This Initial Environmental Examination (IEE) report is prepared to comply with the Environmental Conservation Law (2012) enacted by Ministry of Environmental Conservation and Forestry, Government of the Republic of the Union of Myanmar.

As the manufacturing activities are proposed to be facilitated in the specified industrial area, there are no environmentally sensitive locations in and around the project site. The potential environmental and social impacts as identified for the proposed project activities as part of the IEE have revealed that the impacts are largely of generic construction related impacts.

For all the construction related impacts, environmental mitigation and management measures are integrated into the IEE report. An environmental monitoring plan to monitor the effectiveness of the mitigation /management measures is also incorporated as part of the IEE.

The construction activities and operation of the present industry does not affect the soils and air quality. However, indiscriminate dumping of solid waste can destroy the soil structure and soil fertility over time which can retard the plant growth, leading to environmental degradation.

No wildlife inhabits within the study area which is occupied by human residences, related buildings and infrastructures. A few bird species, mostly crow, sparrow and pigeon are fairly common, in addition to some snakes.

The identification and evaluation of potential environmental and social impacts arising from the proposed factory have been carefully conducted by considering the activities of proposed project versus current social and environmental conditions during construction and subsequent operational period.

Owing to the location, nature of project, the significant level of impacts are low as long as recommended mitigation measures are effectively and properly implemented and managed.

The industrial area has been established with the purpose of extending industrial infrastructure by Yangon Regional Government. Since there is no household inside the compound, relocation and resettlement processes are not involved in this project. The factory land in the industrial zone has been arranged by 50-year-lease-basis from the regional government. For that reason, there is no project affected people (PAP) and socio-economic impacts on indigenous people cause by the proposed project.

The IEE carried out for the proposed factory project shows that the proposed sub-components will result in net environmental benefits, and any adverse environmental impact can be addressed through proper location, planning, and design of the proposed subproject; control of construction activity and

mitigation measures. The Environment Management Plan (EMP) provides for mitigation of all identified impacts and the contract clauses for the environmental provisions shall be part of the civil works contracts.

The proposed project will bring a positive impact to the local people for higher chance of job opportunity. Since the investment will generate to earn foreign exchange US$ 800,000 - 2million into Myanmar and employing 1200 workers at lifelong job secured work place operating under international standards.

According to Asia Development Bank (ADB) classification, present project is included in the **Category B** which requires an initial environmental examination (IEE). The environmental consultant teams from Resource and Environment Myanmar Co. Ltd. (REM) has already conducted the Initial Environmental Examination (IEE) and no further action like Environmental Impact Assessment (EIA) is necessary. The project proponent has committed that they will be using regulation, measures and standards which are being utilized in **Sonny Inc.** (i.e., Main Company based in Japan) for environmental conservation and safety.

CHAPTER 1 INTRODUCTION

1.1 Background

The project proponent, Denso Industry Asia Co. Ltd., is establishing 100 % foreign Investment from Japan for manufacturing of electric wire harness (cables) in used for Television, DVD, Digital Camera, Computer, TV Game, Video Camera in Shwe Lin Ban industrial area in Yangon Region, Myanmar. The company is one of the subsidiaries of Sonny Inc., from Japan, which is a leading manufacture for all kind of electrical and telecommunication products and accessories having subsidiaries in other countries and market to different part of the world. The company is investing **US$ 800,000** in Myanmar which will generate to earn foreign exchange US$ 2million/ year into the country employing 1200 workers at lifelong job secured work place by operating under international standards.

Resource and Environment Myanmar (REM) has been commissioned by the project proponent to conduct Initial Environmental Examination (IEE) and Environmental Management Plan (EMP) for the proposed project in accordance with the existing Environmental Law, 2012, and the Environmental Impact Assessment regulations which is going to be enacted by the Parliament soon.

1.2 Scope of work

As of October 2013, there is no detailed legal process of the Environmental Impact Assessment (EIA) and Initial Environmental Examination (IEE) in Myanmar. However, Ministry of Environmental Conservation and Forestry (MOECAF) has been drafting the EIA Procedures which is defined detailed legal process regarding preparation of EIA and IEE report, Environmental Management Plan (EMP), public involvement, approval of EIA report by MOECAF, and stakeholder meeting, and monitoring process after approval of EIA/IEE report. IEE Type Project means a Project judged by the Ministry to have some adverse impacts, but of lesser degree and/or significance than those for EIA Type Projects.

In addition, this project is classified as B category of ADB Guidelines for Environmental and Social Considerations. ADB categorize the project as four type, A, B, C, and FI. Category A project is the project which is likely to have significant adverse impacts on the environment and society and required with study of EIA level. Category B project is the project whose potential adverse impacts on the

environment and society are less adverse than those of Category A projects and required with study of IEE level. Resource and Environment Myanmar Co. Ltd. has conducted environmental baseline survey in the project area on third week of April 2014 and recorded the existing condition of physical, ecological and social aspects of environment before the factory is commenced in operation. Based on the environmental baseline data, the anticipated potential impacts are identified and then the mitigation measures for the identified impacts are formulated. Base on the mitigation measures for each type of impact, the environmental management plan and monitoring plan are proposed in this Initial Environmental Examination (IEE) report.

1.3 Location of the proposed project site

The proposed factory is located at Plot No.240 in the industrial area of Shwe Linn Ban Area in Hlaingtharya Township in Yangon, about 1.88 km from the South West of Shwepyithar Bridge and 1.31 km to the East of Hlaing River. The current condition of infrastructures in the project site are shown in Figure 1.3-1.

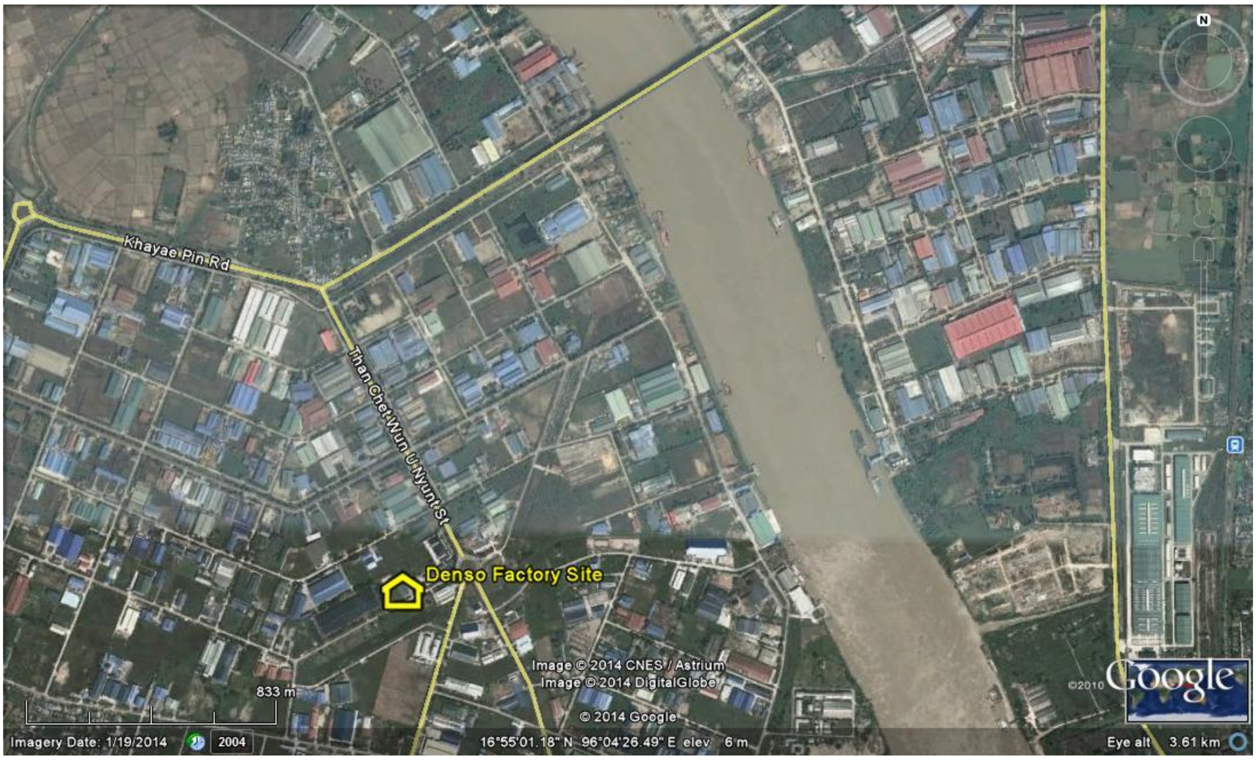


Figure 1.3-1 Location of the proposed project site in Shwe Lin Ban Industrial area, Hlaingtharya Township, Yangon Region, Myanmar



Figure 1.3-2 Location of the factory site shown in yellow boundary in the Shwe Lin Ban Industrial area of Yangon Region



Figure 1.3-3 Landscape of the factory site in Shwe Lin Ban Industrial area



Figure 1.3-4 Current condition of infrastructures observed in the project site.

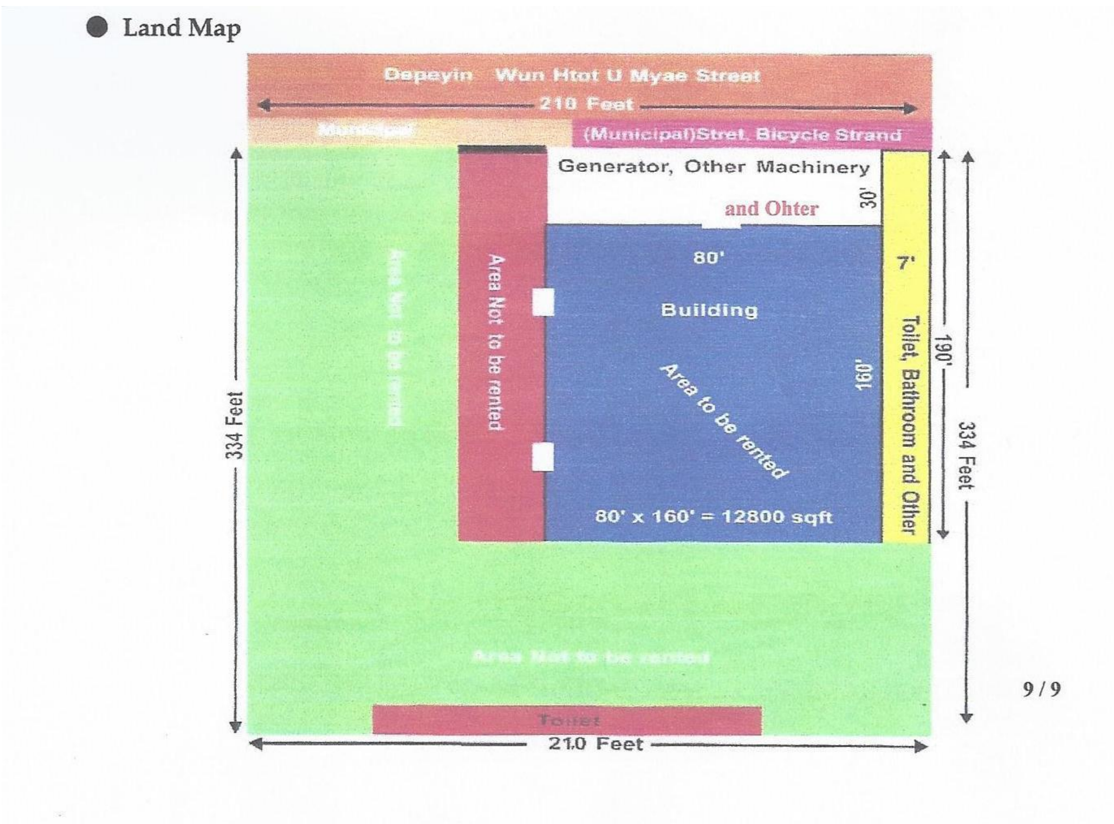


Figure 1.3-5 Floor plan of the project site

1.4 Project Description

The detailed description of the proposed project as described in the documents as provided by the project proponent are summarized in Table 1.4-1.

Table 1.4-1 Detailed description of the project

The project proponent	**Denso Industry Asia Co. Ltd.**
Type of project	Factory for manufacturing of all kinds of wire harness(cables) in used for Television, DVD, Digital Camera, Computer, TV Game, Video Camera
Type of Investment	100 % investment from Japan, a subsidiary of Sonny from Japan, investing **US$ 800000**
The representative of project proponent	• Mr. Mishima Takashi (General manager, Denso Industry Asia Co., Ltd.), Email: mishima_t@denso-k.co.jp
Project Location and size	Plot No.240, Shwe Linn Ban Industrial Zone, Hlaingtharya Township, Yangon Region, Myanmar Area: 0.3 acre
Type of land **Owner of land**	Industrial zone Yangon Region Government
Total area of buildings	48900 sq-meter
Project Facilities **Factory**	**Floor Areas** 1 x 12800 sq. meter
Number of employee	1200 persons from local (for 1st year)
Product	Appendix- 1
Environmental Consultant	**Resource and Environment Myanmar Co. Ltd.** B-702/401 DeltaPlazaBuilding, Shwegondaing Rd., Bahan, Yangon. MYANMAR, Tel: (959) 7301 3448; Fax: (951) 552901; www.enviromyanmar.net
List of Environmental Consultants in REM and the respective fields of expertise	1. U Soe Thura Tun (Principal Consultant, Environmental Management)

	2. U Zaw Naing Oo (Principal Consultant, Environmental Geology) 3. Daw Khin Ohnmar Htwe (Principal Consultant, Social Impact Assessment) 4. U Win Naing Tun (Principal Consultant, Cultural and Legal framework) 5. U Ngwe Moe (Principal Consultant, Health, Safety and Environment)

1.5 Denso Industry Asia Co. Ltd.

Trading partners of Denso Industry Group are no longer confined to Japan and China, and are extending throughout the Southeast Asia. In order to enhance Customers' Satisfaction, there is a necessity to establish another Manufacturing Base other than China.

Field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc. since 2010. The final decision was Myanmar, where our business can achieve rapid development.

- High-quality Labour Force
- Positive Attitude of Improvement on Infrastructure, Logistics, Investment Promotion and etc.
- Enthusiasm in Unifying the System of Tax and Legislation between Public and Private Sectors.

The quality control documents are listed in Appendix-2.

MYANMAR INVESTMENT DETAILS

- Facilities Investment (electronic component processing Large-Scaled Machinery)
- Human Resources Investment (Dispatch of Japanese Technician)
- Capital investment (USD800,000 , USD2,000,000 authorized)
- Environmental Investment (ISO, Systematization of environmental regulations)
- Education Investment (Training in Japan)

SCHEDULE OF EXPANSION INTO MYANMAR

- January, 2014 - Factory Contract (Shwe Lin Ban)

- February, 2014 - MIC Application

- June, 2014 - Start of Facilities Import

- July, 2014 - Start of Material Import

- August, 2014 - Start of Operation

- September, 2014 - Start of Product Export

List of labour

Unit(no. of people)

	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year	9th year	10th year
Affiliation	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Labour	50	180	280	330	380	430	500	650	700	800
Manager	2	2	2	2	2	2	2	2	2	2
Interpretation	1	1	1	2	2	2	2	3	3	3
Production department head	1	1	1	1	1	1	1	1	1	1
Engineering department head	1	1	1	1	1	1	1	1	1	1
Production Control deparment head	1	1	1	1	1	1	1	1	1	1
QC deparment head	1	1	1	1	1	1	1	1	1	1
Senior staff		5	13	15	15	15	20	23	25	25
Account department	1	2	2	2	2	2	2	2	2	2
Administration	1	1	2	2	2	3	4	5	5	5
Purchase/Declaration department	1	2	3	3	3	4	4	5	5	6
Cleaning Staff	1	2	2	2	2	3	3	4	4	5
Total	**61**	**199**	**309**	**362**	**412**	**465**	**541**	**698**	**750**	**852**
Direct employees Mgr ratio	12.9%	6.5%	6.8%	6.9%	6.0%	5.4%	5.5%	5.0%	4.9%	4.3%
Indirect employees ratio	6.5%	3.5%	2.9%	2.5%	2.2%	2.6%	2.4%	2.3%	2.1%	2.1%
Worker ratio	80.6%	90.0%	90.3%	90.7%	91.8%	92.1%	92.1%	92.7%	93.0%	93.6%
Direct labor costs	9.0%	10.1%	10.8%	13.1%	13.4%	13.2%	12.1%	13.3%	13.7%	14.7%
Indirect labor costs	0.8%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.6%	0.7%
Total labor costs	**9.8%**	**10.8%**	**11.6%**	**13.8%**	**14.1%**	**13.9%**	**12.7%**	**14.0%**	**14.3%**	**15.4%**

DENSO INDUSTRY INVESTMENT PRINCIPLE

- Maintaining the employment, gaining profit rapidly and aiming at the Expansion of the Enterprise Scale.

- Achieving a Stable and Sustainable Management through the Provision of Welfare Policy.

- Supporting the Further Development of Myanmar through the Continuing Social and Economical Contribution.

1.6 Objective of Initial Environmental Impact Assessment

The primary purpose of the study is:

- To acquire the project data including social and environmental situation of the project environment
- To identify the key environmental and social issues that might be arising from the project activities during construction and operation phase
- To evaluate the potential impacts of the facility
- To recommend further mitigation and management measures which can reduce or minimize the level of concerns and give a path to the sustainable development

Chapter II LEGISLATIVE FRAMEWORK

2.1. Myanmar Legislation and Institutions concerning environment

2.1.1 Introduction

Myanmar has already had some legislations and regulations relating to natural environmental aspects since before its independence. The Forest Act and the Burma Wildlife Protection Act, for example, were enacted respectively in 1902 and 1936 for the sustainability of the forest produces. Amended versions of such earlier acts and newly promulgated ones are herein briefly outlined to give a perspective on the existing legal and administrative framework concerning the environmental affairs in Myanmar.

2.1.2. Organizations for environmental management

In Myanmar, the Ministries get involved sectorally in legislation and administration of environment-related laws and acts depending on the technical nature of respective ministry and relevant environmental aspects. The principal Ministries implementing and administering such enacted laws and regulations on behalf of the government are Ministry of Forestry, Ministry of Mines, Ministry of Culture, Ministry of Agriculture and Irrigation, Ministry of Health, Ministry of Hotel and Tourism, and Ministry of Livestock and Fisheries. They issued orders, directives and notifications as may be necessary.

On the other hand, the National Commission for Environmental Affairs (NCEA), it was formed under the Ministry of Foreign Affairs in 1990, had played a role as a central/focal coordinating body for environmental matters, particularly adopting national policies on environment until 2011. At that time, the Minister of Foreign Affairs was the only responsible one who had been involved in the international environmental conferences, for that reason who tried to organize and set up environmental governance in Myanmar.

After the elected government of 2010, the Ministry of Forestry has been reformed into **Ministry of Environmental Conservation and Forestry** (MOECAF) and an **Environmental Conservation Law (2012)** has been approved by Myanmar Government.

There are also some NGOs cooperating in the environmental activities of Myanmar. Some of these are, Red Cross, Fire Volunteer Service, Forest Resources and Environment Development Association (***FREDA***), Wildlife Conservation Society (***WCS***), California Academy of Science, International Center for Integrated Mountain Development, Botanic Gardens Conservation International, Conservation on Biodiversity, Smithsonian Institution, Wild Birds Society of Japan, and Asian Elephant Specialist Group. Also, there are academic and research organizations like Myanmar Environment Institute (***MEI***) and Economic and Environmental Research Institute (***EERI***).

2.1.3 Environmental legislation and policies

In the state constitution, "environment" means "natural environment". It states that "The state shall protect the natural environment".

It was learnt that the National Commission on Environmental Affairs (NCEA) has adopted a **National Environmental Policy in 1994** to ensure the incorporation of environmental concerns in planning for economic development. The National Environmental Policy (NEP) emphasizes "the responsibility of the State and every citizen to preserve its natural resources in the interest of present and future generations".

The commission also formulated a blue print, the **Myanmar Agenda 21, in 1997** in response to the call of the Earth Summit to develop national strategies to implement the Global Agenda 21. This document may serve as a framework for integrating environmental considerations in future national development plans as well as sectoral and regional development plans in Myanmar.

Besides the above-stated documents, there are several laws and regulations relating to the environmental matters administered by various relevant Ministries in Myanmar. These are listed in Table 2.1.3-1. Some current major legislation is also tabulated with their main purposes in Table 2.1.3-2.

Table 2.1.3-1 The existing Myanmar laws relating to environment

A. Administrative Sector
1. The Territorial Sea and Maritime Zones Law, 1977
2. The Emergency Provisions Act, 1950
3. The Essential Supplies and Services Act, 1947
4. The Police Act, 1945
5. The Poisons Act, 1919
6. The Explosive Substances Act, 1908
7. The Towns Act, 1907
8. The Village Act, 1907
9. The Yangon Police Act, 1899
10. The Explosives Act, 1887
11. The Penal Code, 1861 of Offences Affecting the Public Health, Safety, Convenience, Decency and Morals.
B. Agriculture and Irrigation Sector
12. The Plant Pest Quarantine Law, 1993
13. The Pesticide Law, 1990
14. The Embankment Act, 1909
C. Culture Sector
15. The Protection and Preservation of Cultural Heritage Region Law, 1998
D. City Development Sector
16. The Development Committees Law, 1993
17. The Mandalay City Development Law, 1992

18. The City of Yangon Development Law, 1990 (Amended in 1995 and again in 1996)

19. The Underground Water Act, 1930

20. The Water Power Act, 1927

21. The City of Yangon Municipal Act, 1922 (The Law Amending the City of Yangon Municipal Act, 1991)

22. The Yangon Water-works Act, 1885

E. Finance & Revenue Sector

23. The Myanmar Insurance Law, 1993

F. Forestry Sector

24. The Protection of Wild Life and Wild Plants and Conservation of Natural Areas Law, 1994

25. The Forest Law, 1992

G. Health Sector

26. The National Food Law, 1997

27. The Traditional Drug Law, 1996

28. The Prevention and Control of Communicable Diseases Law, 1995

29. The National Drug Law, 1992

30. The Union of Myanmar Public Health Law, 1972

H. Hotels and Tourism Sector

31. The Myanmar Hotel and Tourism Law, 1993

I. Industrial Sector

32. The Private Industrial Enterprise Law, 1990

33. The Factories Act, 1951

34. The Oilfield (Workers and Welfare) Act, 1951

35. The Petroleum Act, 1934

36. The Oilfields Act, 1918

J. Livestock and Fisheries Sector

37. The Animal Health and Development Law, 1993

38. The Freshwater Fisheries Law, 1992

39. The Myanma Marine Fisheries Law, 1990 (The Law Amending the Myanma Marine Fisheries Law, 1993)

40. The Law Relating to Aquaculture, 1989

41. The Law Relating to the Fishing Rights of Foreign Fishing Vessels, 1989 (The Law Amending the Law Relating to the Fishing Rights of Foreign Fishing Vessels, 1993)

K. Mining Sector

42. The Myanmar Gemstone Law, 1995

43. The Myanmar Pearl Law, 1995

44. The Myanmar Mines Law, 1994

45. The Salt Enterprise Law, 1992

46. The Land Acquisition (Mines) Act. 1885

L. Science and Technology Sector

47. The Science and Technology Development Law, 1994

M. Transportation Sector

48. The Highways Law, 2000

49. The Motor Vehicles Law, 1964 (The Law Amending the Motor Vehicles Law of 1964 enacted in 1989)

50. The Myanmar Aircraft Act, 1934

51. The Inland Steam Vessels Act, 1917
52. The Ports Act, 1908
53. The Defile Traffic Act, 1907
54. The Yangon Port Act, 1905
55. The Canal Act, 1905
56. The Obstruction in Fairways Act, 1881

Table 2.1.3-2 Current principal legislations of Myanmar

Law and regulation	Year	Purpose
Factory Act	1951	To make effective arrangements in every factory for disposal of waste and effluence, and for matters of health, cleanliness and safety.
Public Health Law	1972	To promote and safeguard public health and to take necessary measures in respect of environmental health.
Territorial Sea and Maritime Zone Law	1977	To define and determine the Maritime Zone, Contiguous Zone, Exclusive Economic Zone and Continental Shelf and the right of the Union of Myanmar to exercise general and exclusive jurisdiction over these zones and the Continental Shelf in respect of preservation and protection of the marine environment, its resources and prevention of marine pollution.
Fishing Rights of Foreign Vessels Law	1989	To conserve fisheries and to enable systematic operation in fisheries with participation of foreign investors.
Marine Fisheries Law	1990	To conserve marine fisheries and to enable systematic operation in marine fisheries.
Forestry Law	1992	To implement forest policy and environmental conservation policy, to promote the sector of public cooperation in implementing these policies, to develop the economy of the State, to prevent destruction of forest and biodiversity, to carry out simultaneously conservation of natural forests and establishment of forest plantations and to contribute to the fuel requirements of the country.

National Environmental Policy	1994	To establish sound environment policies in the utilization of water, land, forest, mineral resources and other natural resources in order to conserve the environment and prevent its degradation.
Protection of Wildlife and Wild Plants and Conservation of Natural Areas Law	1994	To protect wildlife, wild plants and conserve natural areas, to contribute towards works of natural scientific research, and to establish zoological gardens and botanical gardens
Myanmar Mines Law	1996	To implement mineral resources policy.
Fertilizer Law	2002	To boost development of the agricultural sector, control fertilizer businesses, and to facilitate conservation of soil and the environment.

Sources: Data compilation by Resource and Environment Myanmar Co. Ltd. 2012 based on the references; 1) United Nations Development Programme, 'The World of Information: Asia and Pacific Review', *The Economic and Business Report,* 1997 Sixteenth Edition; 2) United Nations Development Programme, 1998; 3) *Human Development Report*, United Nations Development Programme, New York.

2.2. International treaties and agreements ratified and/or signed by the Government

Myanmar has also made commitments to the following international agreements on environmental issues as shown in the Table 2.2-1.

Table 2.2-1 Myanmar's Commitment to International Agreements on Environmental Issues

(Ref: National Commission of Environmental Affairs (NCEA) during 1959 and 2004)

No.	International Environmental Conventions/ Protocols/ Agreements	Date of Signature	Date of Ratification	Date of Member	Cabinet Approval Date/No.
1	Plant Protection Agreement for the South-East Asia and the Pacific Region, Rome, 1956		4-11-1959 (Adherence)	4-11-1959	
2	Treaty Banning Nuclear Weapons Test in the Atmosphere in Outer Space and Under Water, Moscow, 1963	14/8/1963	15-11-1963 (Ratification)		
3	Treaty on the Prohibition of the Emplacement of Nuclear Weapons and other Weapons of Mass Destruction on the Sea-Bed and Ocean Floor and in the Subsoil there of, London, Moscow, Washington, 1971	11/2/1971			
4	Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons, and on their Destruction, London, Moscow, Washington, 1972	10/4/1972			
5	International Convention for the Prevention of Pollution from Ships, London, 1973	(Accession)	undertakes to give effect to this Convention under para 1 & 2 of Article 1 of the Protocol of 1978		
6	Protocol of 1978 Relating to the International Convention for the Prevention of Pollution from Ships, London, 1973		4-8-1988 (Accession)	Except for Annexes III,IV and V of the Convention	
7	United Nations Convention on the Law of the Sea, Montego Bay, 1982	10/12/1982	21-5-1996 (Ratification)		
8	United Nations Framework Convention on Climate Change, New York, 1992 (UNFCCC)	11/6/1992	25-11-1994 (Ratification)		41/94 9-11-94

9	Convention on Biological Diversity, Rio de Janeiro, 1992	11/6/1992	25-11-1994 (Ratification)		41/94 9-11-94
10	Treaty on the Non-Proliferation of Nuclear Weapons, London, Moscow, Washington, 1968		2-12-1992 (Accession)		
11	Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and their Destruction, Paris, 1993	14-1-1993			
12	International Tropical Timber Agreement (ITTA), Geneva, 1994	6-7-1995	31-1-1996 (Ratification)		
13	Vienna Convention for the Protection of the Ozone Layer, Vienna, 1985		24-11-1993 (Ratification)	22-2-1994	46/93
14	Montreal Protocol on Substances that Deplete the Ozone Layer, Montreal, 1987		24-11-1993 (Ratification)	22-2-1994	46/93
15	London Amendment to the Montreal Protocol on Substances that Deplete the Ozone Layer, London, 1990		24-11-1993 (Ratification)	22-2-1994	46/93
16	The Convention for the Protection of the World Culture and Natural Heritage, Paris, 1972		29-4-1994 (Acceptance)		6/94 9-2-94
17	ICAO ANNEX 16 Annex to the Convention on International Civil Aviation Environmental Protection Vol. 1 Aircraft Noise	(Accession)			
18	ICAO ANNEX 16 Annex to the Convention on International Civil Aviation Environmental Protection Vol. II Aircraft Engine Emission	(Accession)			
19	Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space Including the Moon and Other Celestial Bodies (Outer Space Treaty), London, Moscow, Washington, 1967	22-5-1967	18-3-1970 (Ratification)		
20	Agreement on the Networks of Aquaculture Centres in Asia and the Pacific, Bangkok, 1988		22-5-1990 (Accession)		
21	South East Asia Nuclear Weapon Free Zone Treaty, Bangkok, 1995	15-12-1995	16-7-1996 (Ratification)		
22	United Nations Convention to Combat Desertification in Those Countries Experiencing Serious Drought and / or Desertification, Particularly in Africa, Paris, 1994 (UNCCD)		2-1-1997 (Accession)	2-4-1997	40/96 4-12-96
23	Convention on International Trade in Endangered Species of Wild Fauna and Flora, Washington, D.C.,		13-6-1997 (Accession)	11-9-1997	17/97 30-4-97

	1973; and this convention as amended in Bonn, Germany,1979 (CITES)				
24	Agreement Relating to the Implementation of Part XI of the United Nations Convention on the Law of the Sea of 10 December 1982, New York, 1994		21-5-1996 (Accession)		
25	Agreement to Promote Compliance with International Conservation and Management Measures by Fishing Vessels on the High Seas, Rome, 1973		8-9-1994 (Acceptance)		
26	ASEAN Agreement on the Conservation of Nature and Nature Resources, Kuala Lumpur, 1985	16/10/1997			
27	Catagena Protocol on Biosafety, Cartagena, 2000	11/5/2001			13/2001 22-3-01
28	ASEAN Agreement on Transboundary Haze Pollution	10/6/2002	13-3-2003 (Ratification)		7/2003 27-2-03
29	International Treaty on Plant Genetic Resources for Food and Agriculture, 2001		4-12-2004 (Ratification)	29-6-2004	
30	Kyoto Protocol to the Convention on Climate Change, Kyoto, 1997		13-8-2003 (Accession)		26/2003 16-7-03
31	Stockholm Convention on Persistent Organic Pollutants (POPs), 2001		18-4-2004 (Accession)	18-7-2004	14/2004 1-4-04

2.3 Current status of Environmental Conservation Law in Myanmar

Because of the very recent establishment of Environmental Conservation Law signed by the President on 30th March 2012, detail duty, coordination framework and mechanism have not been thoroughly settled yet. The ministry (MOECAF) recommends the environmental service companies to follow the world known environmental standards e.g. the Asia Development Bank (ADB) and International Finance Corporation (IFC) (Resource & Environment Myanmar, per. Com. 2012).

2.3.1 A brief outline of Environmental Conservation Law, 2012

The law consists of 14 chapters and 42 articles. The objectives of the law are:

(a) To implement the Myanmar National Environmental Policy;

(b) To lay down the basic principles and give guidance for systematic integration of the matters of environmental conservation in the sustainable development process;

(c) To emerge a healthy and clean environment and to conserve natural and cultural heritage;

(d) To reclaim ecosystems as may be possible which are starting to degenerate and disappear;

(e) To manage and implement for decrease and loss of natural resources and for enabling the sustainable use beneficially;

(f) To implement for promoting public awareness and cooperation in educational programmes

(g) To promote international, regional and bilateral cooperation

(h) To cooperate with Government departments, organizations, international organizations, non-government organizations and individuals

Chapter (III) Formation of the Environmental Conservation Committee

Article 4. (a): The Union Government shall form the Environmental Conservation Committee (ECC) with the Union Minister for the Union Ministry assigned by the Union Government as the Chairman and with suitable members to conserve the environment of the Republic of the Union of Myanmar;

Article 5: The Union Government shall stipulate functions and duties of the Committee to implement the objectives contained in this Law.

Article 6: The powers of ECC

(a) Carrying out educational activities;

(b) Suggesting to amend and insert, as may be necessary, the lessons on environmental conservation contained in school lessons;

(c) Accepting donations, grants, materials and technological aids, materials and technologies;

(d) Sending suitable suggestions and encouragements relating to environmental conservation;

(e) Asking necessary proposals and suggestions for conservation and enhancement of environment;

(f) Prohibiting the relevant Government departments and organizations if the environmental damages arise or situations for damage arise;

(g) Laying down and carrying out the Myanmar national environmental policies and other environmental policies for conservation and enhancement of environment

Chapter (IV) Duties and Powers relating to Environmental Conservation of the Ministry

Article 7: The duties and Powers relating to Environmental Conservation of the Ministry are as follows:

(a) Implementing environmental conservation policies;

(b) Planning and laying down national or regional environmental management work plans;

(c) Laying down, carrying out and monitoring programmes for enhancement of the environment, and control of environmental pollution;

(d) Prescribing environmental quality standards

(e) Submission of proposals to the Committee for economic incentive mechanisms

(f) Specifying categories of hazardous wastes generated from the production and use of chemicals in industry, agriculture, mineral production, sanitation

(g) Promoting the establishment of necessary factories for the treatment of solid wastes, effluents and emissions which contain toxic and hazardous substances;

(h) Prescribing the terms and conditions relating to effluent treatment in industrial estates and other and emissions of machines, vehicles and mechanisms;

(i) Laying down and carrying out a system of environmental impact assessment and social impact assessment as to whether or not a project to be undertaken causing a significant impact on the environment;

(j) Cooperating with International, regional, bilateral agreements, instruments and programmes;

(k) Laying down guidance relating to Ozone layer protection, conservation of Bio Diversity, of coastal, mitigation and adaptation of global warming and climate change, combating desertification and management of other environmental matters;

(l) Managing to cause the polluter to compensate for environmental impact, cause to contribute benefit from the natural environmental services, cause to contribute a part of the benefit from using the natural resources;

Article 8. Environmental Management Fund

To establish an Environmental Management Fund in the Union Budget for effective implementation of environmental conservation works in addition to the Union Consolidated Fund.

Chapter (V) Environmental Emergency

Article 9. Committee shall immediately report to the Union Government to declare the occurrence of environmental emergency; carrying out necessary measures

Chapter (VI) Environmental Quality Standards

Article 10. The Ministry may stipulate the following environmental quality standards:

(a) suitable surface water quality standards in the usage in rivers, streams, canals, springs, marshes, swamps, lakes, reservoirs and other inland water sources of the public;

(b) Water quality standards for coastal and estuarine areas;

(c) Underground water quality standards;

(d) Atmospheric quality standards;

(e) Noise and vibration standards;

(f) Emissions standards;

(g) Effluent standards;

(h) Solid wastes standards;

(i) Other environmental quality standards

Chapter (VII) Environmental Conservation

Article 13. The Ministry shall, under the guidance of the Committee, maintain a comprehensive monitoring system and implement by itself or in co-ordination with relevant Government departments and organizations in the following matters.

(a) The use of agro-chemicals which cause to impact on the environment significantly;

(b) Transport, storage, use, treatment and disposal of pollutants and hazardous substances in industries;

(c) Disposal of wastes come out from exploration, production and treatment of minerals, industrial mineral raw materials and gems;

(d) Carrying out waste disposal and sanitation works;

(e) Carrying out development and constructions;

(f) Carrying out other necessary matters

Compliance with Environmental Quality Standards

Article 14. To treat and deposit the substances with cause pollution in accord with environmental standards;

Article 15. To install facility and equipment to reduce or eliminate environmental pollution;

Article 16. To comply with the directives in the industrial estate or business in the industrial and special economic zone;

Chapter (VIII) Management of Urban Environment

Article 17. The Ministry shall, for the management of urban environment, advice as may be necessary to the relevant Government departments and Government organizations, private organizations and individuals in carrying out the following matters:

(a) Land use planning and management including zoning;

(b) Management of the construction industry in pivotal urban centres;

(c) Management of housing settlements;

(d) Management of wastes;

(e) Pollution control including land, water, air and noise pollution;

(f) Other necessary environmental management.

2.3.2 Guidelines and Standards related to Environment

To date, there has been an approved guideline related to environment, i.e. the FDI Rules Notification by Myanmar Investment Commission (31 January 2013). In its section 3, a list of business that require environmental impact assessment or related studies. 34 types of investment are listed in it.

The Ministry of Environmental Conservation and Forestry has been preparing a guideline or rules and regulations concerning environment since 2012, but it has not yet been unacted yet. However, the ministry (MOECAF) recommended the investors and environmental firms to apply Environmental Guidelines of Asian Development Bank (ADB) and that of International Finance Corporation (IFC) before Myanmar's guidelines have been legalized.

2.3.3 The draft Environmental Impact Assessment rules

The EIA rules are being notified by the Ministry of Environmental Conservation and Forestry during August, 2013 in exercise of the powers conferred by Section 42 Subsection (a) of the Environmental Conservation Law and with the approval of the Union Government. These rules are now brought to the Parliament to be approved within 90 days. Until now, the Ministry has verbally informed the following information to the environmental experts.

- The projects which are required to conduct IEE or EIA
- To Develop Environmental Management Plan

- EIA has to be conducted by independent Party who is registered in MOECAF
- EIA Review Committee
- EIA approval by the Ministry with the guidance of ECC

2.4. Current Organization and Management

Although Myanmar has a number of environmental related laws and regulations, it lacks the appropriate institutional framework to carry out 'protection and conservation of the environment' so as to achieve sustainable development by implementing these laws. However, the Ministry of Environmental Conservation and Forestry (MOECAF) did its best in addressing environmental issues through engagement, coordination and cooperation both at sectoral and national levels. **Myanmar Investment Commission (MIC) asked all the development projects passing through to conduct proper EIA from middle half of 2012**.

In exercise of the powers conferred under **paragraph 56 (b) of the Foreign Investment Law**, with the approval of the Government, Myanmar Investment Commission (MIC) announced the Economic Activities into following categories in Notification No. 1/2013 on 31st January, 2013.

1. List of Prohibited Economic Activities,
2. List of Economic Activities allowed in the form of Joint Venture with Myanmar citizens
3. List of Economic Activities which shall be allowed under the specific circumstances shown in the followings.
    - List of Economic Activities Permitted with the recommendations of the Relevant Ministry
    - List of Economic Activities Permitted with Other Conditions
    - List of Economic activities which required Environmental Impact Assessment (Ministry of Environmental Conservation and Forestry)

According to Environmental Conservation Law, 2012, the Union Government shall form **Environmental Conservation Committee (ECC)** which is the national level policy maker and

Ministry of Environmental Conservation and Forestry (MOECAF) act as national coordinating body. In fact, MOECAF was established to advise the Government on environmental policies, to act as a focal point and as a coordinating body for environmental affairs; and to promote environmentally sound and sustainable development in Myanmar.

2.4.1 Ministry of Environmental Conservation and Forestry (MOECAF)

Since country had initiated to start moving onto the path of democracy, new civil government was elected in 2010. After the selected government, Ministry of Forestry was reformed as Ministry of Environmental Conservation and Forestry (MOECAF) in 2011 as a national level agency to coordinate and handle environmental related issues and matters including the implementation of international environmental agreements signed by government, law enforcements and information dissemination. Since then NCEA was cancelled and MOECAF has been acting as focal coordinating body for country's overall environmental management and environmental matters. There are five departments under the MOEFAF, namely,

1. Planning and Statistics Department
2. Forest Department
3. Dry zone Greening Department
4. Environmental Conservation Department (ECD)
5. Survey Department
6. Myanma Timber Enterprise

Environmental Conservation Department (ECD) was created in October 11, 2012 to take responsibility for the effective implementation of environmental conservation and management in Myanmar. The objectives of forming ECD are shown below.

- To implement the national environment policy
- To develop short, medium and long term strategy, policy and planning for the integration of environmental consideration into the sustainable development process
- To manage natural resources conservation and sustainable utilization
- To manage the pollution control on water, air and land for environmental sustainability
- To cooperate with government organization, civil societies, private and international organizations for the environmental affairs.

Currently, Environmental Conservation Department has been hosting various environmental and sustainable related workshops and meetings in an effort to fulfill the country's most demanding human resource, knowledge and technical expertise in environmental sector by technical transferring and knowledge sharing from international consultants.

On the other hand, in collaboration with international finical institutions and United Nations organizations, MOECAF has also been carrying out the activities of preparing environmental regulations such as EIA rules, environmental quality standards and other environmental related issues. MOECAF has planned to organize sub divisions under ECD and extend the manpower in near future with the aim of effectively implement and manage the environmental regulations and resources in country wide. This newly organized environmental divisions include the followings.

- Administration
- Planning & Internal relation
- Pollution control
- Natural resource and EIA
- State and Region departments.

As the job allocation and staffing within the department are in progress detailed functions and responsibilities given to individual department remain still unknown in the time of the report.

2.4.2 Sectoral Framework / Mechanism

Different ministries involved in dealing with environmental issues also have their own policies, capacities, processes, legislations, and budgets for the environmental issues they have. For example, the Ministry of Environmental Conservation and Forestry has its own budget for the reforestation component of the Land Degradation Programme. However, given close cooperation between the different Ministries, information regarding budgets as on other matter is shared between one another. Capacity and institution building in the short and medium term is being carried out by each ministry separately on their own budgets. Governmental organizations and their prime environmental issues are summarized in Table 2.4.2-1.

Table 2.4.2-1 Governmental organizations and relevant environmental issues

(Source: Data compilation by Resource and Environment Myanmar Co. Ltd. 2012)

Environmental Issues / Governmental Organizations	Air Pollution	Water Pollution	Banned Pesticides	Environment in Factory	Toxic chemicals	Solid Waste	Energy	Water Supply	Waste Water Treat	Forest and Desert	Biodiversity	Natural Resources	Natural Disaster	Environmental Education
Ministry of Environmental Conservation and Forestry	○	○	○	○	○	○	○	○	○	○	○	○	na	○
Ministry of Agriculture and Irrigation	-	○	○	-	○	○	-	○	-	○	-	○	-	○
Ministry of Livestock and Fisheries	-	-	-	-	-	-	-	-	-	-	-	○	-	-
Ministry of Industry	-	○	na	-	○	○	-	na	○	-	-	-	-	-
Ministry of Health	na	○	na	na	○	○	-	○	-	-	-	-	-	○
Ministry of Energy	-	-	-	-	-	-	○	-	-	-	-	na	-	-
Ministry of Electric Power	-	-	-	-	-	-	-	na	-	-	-	na	-	-
Ministry of Transport	-	-	-	-	-	-	-	○	-	-	-	na	-	-
Ministry of Home Affairs	-	na	-	-	-	-	-	-	-	-	-	-	○	-
Ministry of Labour	○	○	-	○	-	-	-	-	○	-	-	-	-	-
Ministry of Mine	○	na	-	-	na	na	-	-	-	-	-	○	-	-
Ministry of Science and Technology	na	na	na	-	○	○	○	-	-	-	-	-	-	○
Ministry of Education	-	-	-	-	-	-	-	-	-	-	-	-	-	○
Ministry of National Planning and Economic Development	-	○	-	-	-	-	-	-	-	-	-	-	-	-
Ministry of Progress of Border Areas, National Races and Development Affairs	-	-	-	-	-	-	-	○	-	○	-	-	na	-
Myanmar Investment Commission	-	○	-	-	-	-	-	-	-	-	-	○	-	-
National commission for Water and Sanitation	-	na	-	-	-	-	-	○	-	-	-	-	-	-
Industrial Development Central Committee	○	○	-	-	-	-	-	-	-	-	-	-	-	-
Disaster Prevention Central Committee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yangon City Development Committee	○	○	-	-	○	○	-	-	○	-	-	-	-	-
Mandalay City Development Committee	○	○	-	-	○	○	-	-	○	-	-	-	-	-

Note: 1) : ○ → Relevant Organization - → No responsible na → Lack of information

2.5 Existing laws and regulations relevant to the proposed project

The following laws and regulations are generally relevant to the proposed factory project.

1. The Penal Code, 1861 of Offences Affecting the Public Health, Safety, Convenience, Decency and Morals
2. The Factories Act, 1951
3. The Union of Myanmar Public Health Law, 1972
4. Electricity Law, 1984
5. Private Industrial Enterprise Law (Law No. 22/90, 1990)
6. The Prevention and Control of Communicable Diseases Law, 1995
7. Fire Service Law, 1997
8. The Labour Laws of Myanmar
9. Environmental Conservation Law, 2012
10. Foreign Investment Law, 2012
11. Foreign Investment Rules, 2013
12. Prevention from Danger of Chemical and Associated Materials Law, 2013

2.5.1 Urban Water Utilization

Most of the laws shown below are relating for urban water utilization and for ground water use, the laws are still under processing, but some are prepared to draw new concepts.

(1) The Burma Municipal Act (1898)

(2) The Burma Canal Act 1905, as amended by Burma Act of 1914, of 1924 of 1928 and of 1934

(3) The Underground Water Act (1930) , Burma Act IV1930) 21 June 1930

(4) The Burma Water Power Rules (1932)(8) The Rangoon Municipal Act (1941)

Section 114 : Water Supply

Section 116 : Power of Access to Municipal Water Works

Section 117 : Prohibition of Erection of any Building which Injure Sources of Water Supply

Section 118 : Prohibition of Bathing in or polluting water

Section 119 : Occupiers of Premises to be primarily liable for Certain Offences Against the Act

2.5.2 Law of Govern Pollution

Myanmar has no specific laws to govern water pollution.

- Public Health Law (1972) (environmental health such as garbage disposal, use of water for drinking and other purpose, radioactivity, protection of air from pollution and food and drug safety)
- Burma Ports Act (1908) (harbours pollution, this merely focuses on the detriment to navigation)
- Myanmar Investment Commission guideline (1994) River and lake pollution from sewage, industrial waste and solid waste disposal are serious problems in Myanmar, but are not regulated explicitly by any laws. So, new laws relating to pollution should be enacted.

2.5.3 Existing legal framework related to labours and occupational safety in Myanmar

The existing legal framework most related to labours and occupational safety in Myanmar are the following **Labour Laws**.

- Employment Restriction Act. 1959
- Employment Statistics Act. 1948
- Employment and Training Act. 1950
- Factories Act. 1951
- Minimum Wages Act, 1949
- Payment of Wages Act. 1936
- Shops and Establishments Act, 1951
- Social Security Act. 1954
- The Leave and Holidays Act. 1951
- Trade Disputes Act, 1929
- Employment and Skill Development Law, 2013

In addition, Myanmar has also ratified numerous International Labour Organization Conventions. "According to section 24 of Myanmar's constitution, the government must provide the means to protect labours.

2.5.3.1 The Factories Act 1951

The Factories Act 1951, is the principle Labour Law dealing with Safety, Health, Welfare and working hours of industrial workers in Myanmar. It is the act relating to occupational safety for the workers. It provides requirements concerning with working hours, working days, overtime, and certain health and safety measures. The provisions relating to health and safety aim at ensuring a healthy and safe workspace for workers. It includes provisions for ensuring cleanliness, adequate workspace, adequate lighting and ventilation, adequate supply of whole-some drinking water, adequate sanitary facilities, proper disposal of waste and effluence, absence of injurious dust and fumes at the workplace, fencing and guarding of dangerous machinery and places, precaution to be taken with regard to work in confined spaces, safety of lifting machinery, prevention of explosion and fires etc.

The stipulations relating to welfare include provision of suitable cleaning and washing facilities for workers, place for taking meals and rest, first-aid facilities, place for care of infants of working mothers, among other things. The provisions regarding hours of work and days of rest, include limiting hours of work to 8 hours a day and 44 hours a week, granting a weekly holiday and rate of payment for overtime work.

The Factories Act also has stipulations relating to children and young persons. A child under the age of 13 years in prohibited to work in any factory. A child who is between the age of 13 and 15 may work for a maximum of 4 hours a day subject to certain conditions.

The following is a summary list of the Factories Act, 1951 but not in details.

Working Hours: Normal working hour is 8 hours a day and 44 hours/ 40 hours/ 48 hours a week. A worker is entitled to minimum thirty minute rest period after working continuously for five hours.

Working Days: Working days may be up to six days a week (Remark: For government services, 5 days a week)

Overtime: Overtime is permissible. Its pay is twice the normal pay rate. And other rights can also get.

Safety and Health: The employer has an obligation to protect workers from occupational hazards relating to the physical facilities, harmful substances, and environment factors at the workplace. The employer has other obligations, depending on the number of workers employed.

The workers can also get other rights in accordance with Leave and Holidays Act, 1951, Social Security Act, 1954 and the Worker's Compensation Act, 1923.

For example,

- How many leaves with salary can get for a male or female worker?
- How many holidays can get for a worker?
- How much compensations can get for a worker?

In this factory worker field, Oilfield workers and Mine workers are also involved. There are also other rights for them and it may be a little different with other field of factory workers.

2.5.3.2 First law on safety and health in workplaces

The first law on safety and health in workplaces is being drafted by the Ministry of Labour, Employment and Social Security and will be promulgated in 2013. "The law will aim to prevent air and water pollution and improve safety at worksites, including fire prevention, ensuring construction workers use protective equipment, ensuring the safety of worksite operators and taking precautions for natural disasters (Source: Myanmar to draft first Myanmar Safety Law, MYANMAR TIMES Journal, 21 Dec 2012, as spoken by U Si Thu Aung, head of the Ministry's Factories and General Labour Law Inspection Department, during a seminar on occupational health and safety at the Union of Myanmar Federation of Chambers of Commerce and Industry in Yangon on Saturday, December 15).

2.5.3.3 General information on PPE in construction sites

Workers must start obeying regulations and wearing protective equipment to improve safety standards and reduce accidents. "New construction sites need a drain for waste, a good sanitation system, fire alarms and a safety net for construction workers. These precautions need to be widely understood by

workers entering the industry. At the construction site, the system for water and power often causes electrical fires. (***Source***: *Myanmar to draft first Myanmar Safety Law*, MYANMAR TIMES Journal, 21 Dec 2012, a speaker note from a seminar on occupational health and safety at the Union of Myanmar Federation of Chambers of Commerce and Industry in Yangon on December 15, 2012).

1. 2.5.4 Concerning government organizations in Myanmar for employee

Ministry of Labour, Employment and Social Security

Labour administration is the responsibility of the Ministry of Labour, Employment and Social Security. Departments under the Ministry include: (1) Department of Labour, (2) Social Security Board, (3) Central Inland Freight Handling committee, (4) Factories and General Labour Laws Inspection Department, and (5) Department of Labour Relations.

Department of Labour: Amongst others, the major functions performed by this department include conducting negotiations and conciliations in cases of dispute between employers and employees; providing employment services through its 78 township offices; providing overseas employment services; researching and reviewing labour laws; and maintaining manpower statistics.

Social Security Board: The Social Security Board administers the Social Security Scheme established pursuant to the Social Security Act.

Factories and General Labour Laws Inspection Department: This department researches, monitors, and enforce safety and health standards in factories. Its inspectors are authorized to fine employers who breach minimum safety and health standards, and who commit other transgressions such is not complying with trade disputes awards, or not remitting social security contributions. Apart from enforcement, the department also disseminates industrial safely information and provides consultancy services.

Occupational Health Division (OHD)

OHD is under the Department of Health in the Ministry of Health. Occupational health Division takes the responsibility for health promotion in work places, environmental monitoring of work places and

biological monitoring of exposed workers. The division is also providing health education on occupational hazards. Occupational Health Division has also investigated the industrial accidents in various states and regions to prevent the occurrence of similar episodes.

The Ministry of Health has been collaborating with Ministry of Labour for the formation of National Occupational Safety and Health Committee. The Ministry of Health played a major role in drafting "Chemical Safety Law" with the Ministry of Industry and other related ministries.

2. 2.6 Quantitative Target Levels for Consideration of Surrounding Environment

According to the Environmental Conservation Law, MOECAF shall set standards of environmental qualities as agreed by the Union Government and the Environmental Conservation Committee as follows:

(a) standard quality of water related to the use of inland water available to public places, dams, ponds, swamps, flooded land, channel, creeks and rivers

(b) standard quality of water at coastal regions and delta area

(c) standard quality of groundwater

(d) standard quality of air

(e) standard of noise and vibration

(f) standard of odor and emission gas

(g) standard of wastewater

(h) standard of soil and leachate from solid waste

(d) other standard environment qualities set by the Union Government

As of October 2013, these above standards have not been set yet. Therefore, the Project proponent set quantitative target levels on air quality, noise, and vibration which may cause adverse impact to surrounding environment by the Project. Each quantitative target level to be applied is described below.

2.6.1 Air Quality

There is no ambient air quality standard to receptors in Myanmar. On the other hands, most of the countries in south-east Asia have the ambient air quality standard to receptors as well as in Japan. International standard is also available in the Environmental, Health, and Safety (EHS) Guidelines

prepared by International Fiancé Cooperation (IFC). Table 2.6.1-1 shows ambient air quality standard in south-east Asia countries, Japan, IFC.

Table 2.6.1-1 Ambient Air Quality Standard in South-East Countries, Japan, IFC

Item	Averaging period	Japan	Thailand	Vietnam	IFC
SO_2	10 min	-	-	-	0.5 mg/m^3
	1 hour	0.1 ppm	0.3 ppm	0.35 mg/m^3	0.125 mg/m^3(Interim Target-1) 0.05mg/m^3(Interim Target-2) 0.02mg/m^3(Guideline)
	24 hours	0.04 ppm	0.12 ppm	0.125 mg/m^3	-
	1 year	-		0.05 mg/m^3	-
NO_2	1 hour	-	0.17 ppm	-	0.2 mg/m^3
	24 hours	0.04-0.06 ppm	-	-	-
	1 year	-	0.03 ppm	-	0.04 mg/m^3
NOx	1 hour	-	-	0.2 mg/m^3	
	24 hours	-	-	0.04 mg/m^3	
CO	1 hour	--	30 ppm	30 mg/m^3	-
	8 hours	20 ppm	-	10 mg/m^3	-
	24 hours	10 ppm	9 ppm	-	-
TSP	1 hour	-	-	0.3 mg/m^3	-
	24 hours	-	0.33 mg/m^3	0.2 mg/m^3	-
	1 year		0.10 mg/m^3	0.14 mg/m^3	-
PM_{10}	24 hours	-	0.12 mg/m^3	0.15 mg/m^3	0.15 mg/m^3(Interim Target-1) 0.10 mg/m^3(Interim Target-2) 0.07 mg/m^3(Interim Target-3) 0.05 mg/m^3(Guideline)
	1 year	-	0.05 mg/m^3	0.05 mg/m^3	0.07 mg/m^3(Interim Target-1) 0.05 mg/m^3(Interim Target-2) 0.03 mg/m^3(Interim Target-3) 0.02 mg/m^3(Guideline)
SPM	1 hour	0.2 mg/m^3	-	-	-
	24 hours	0.1 mg/m^3	-	-	-
$PM_{2.5}$	24 hours	0.035 mg/m^3	0.05 mg/m^3	-	0.075 mg/m^3(Interim Target-1) 0.05 mg/m^3(Interim Target-2) 0.0375 mg/m^3(Interim Target-3) 0.025 mg/m^3(Guideline)
	1 year	0.015 mg/m^3	0.025 mg/m^3	-	0.035 mg/m^3(Interim Target-1) 0.025 mg/m^3(Interim Target-2) 0.015 mg/m^3(Interim Target-3) 0.01 mg/m^3(Guideline)
Ozone	1 hour	-	0.10 ppm	0.3 mg/m^3	-
	8 hour daily maximum	-	0.07 ppm	0.2 mg/m^3	0.16 mg/m^3(Interim Target-1) 0.1 mg/m^3(Guideline)
	1 year	-	0.04 ppm	0.14 mg/m^3	-
Ox	1 hour	0.06 ppm	-	-	-
Pb	24 hours	-	-	0.0015 mg/m^3	
	1 month	-	0.0015 mg/m^3	-	
	1 year	-	-	0.0005 mg/m^3	

Source: National Air Quality Standard in Japan (Circular No. 25, 1973, originally), Ministry of Environment, Japan
Notifications of National Environmental Board No.10, 24, 28, 33, and 36, Ministry of Natural Resources and Environment, Thailand
National Ambient Air Quality Standard (TCVN5973:2005), Ministry of Science and Technology in Vietnam
Environmental, Health, and Safety Guidelines, General EHS Guidelines, IFC, 2007

2.6.2 Noise

There is no noise standard in Myanmar. South-east Asia countries such as Thailand, Vietnam, and Indonesia as well as IFC EHS Guidelines have their ambient noise standards but not have standards along road. In Japan, there are several noise standards and guidelines along the roads depending on types of the roads and land use. Among the standards and guidelines, request limit for noise from vehicle under noise regulation act is adopted as shown in Table 2.6.2-1.

Table 2.6.2-1 Request Limit for Noise from Vehicle in Japan

Category	Land Use	Lane	Day time (Leq) (6am-10pm)	Night time (Leq) (10pm-6am)
a Zone	Exclusive Residential Area	1 Lane	65 dB	55 dB
		More than 2 Lanes	70 dB	65 dB
		4 Lanes categorized as main road	75 dB	70 dB
b Zone	Residential Area with small shops and office	1 Lane	65 dB	55 dB
		More than 2 Lanes	75 dB	70 dB
		4 Lanes categorized as main road		
c Zone	Commercial and Industrial Area	1 Lane	75 dB	70 dB
		More than 2 Lanes		
		4 Lanes categorized as main road		

Source: Noise Regulation Act, Japan (Law No.98, 1968, Amended No.33, 2006)

2.6.3 Vibration

There is no vibration standard in Myanmar. South-east Asia countries such as Thailand, Vietnam, and Indonesia have their vibration standards for damage of buildings etc. but not have standards along road. In Japan, there is a guideline along the roads depending on types of the roads and land use, called request limit for vibration from vehicle under vibration regulation act as shown in Table 2.6.3-1.

Table 2.6.3-1 Request Limit for Vibration from Vehicle in Japan

Category	Land Use	Day time (Leq) (5am-10pm)	Night time (Leq) (7pm-8am)
First Zone	Residential Area	65 dB	60 dB
Second Zone	Commercial and Industrial Area	70 dB	65 dB

Note: Local governor can decide starting time and ending time as day time requirement and night time requirement

Source: Vibration Regulation Act, Japan (Law No.64, 1976, Amended 2004)

2.6.4 Waste Water Standard in Myanmar

Currently, Myanmar has no specific waste water standard related to construction activities. The waste water standard shown in Table 2.6-4 is issued from the Ministry of Industry especially to be used for factories. It is referable and only one waste water standard available in Myanmar. However, the name of original regulation of the standard is not known.

Table 2.6.4-1 Industrial Wastewater Effluent Standard of the Ministry of Industry

No	Items	Allowable Rate	Unit	Notes
1.	BOD (5days at 20·°C)	max 20-60	ppm	Depending on geography of waste discharging point
2.	Suspended Solids	max 30	ppm	
3.	Dissolved solids	max 2,000	ppm	
4.	pH Value between 5 and 9 Permanganate value	max 60	ppm	
5.	Sulphide (as HS)	max 1	ppm	
6.	Cyanide (as HCN)	max 0.2	ppm	
7.	Oil and grease	max 5	ppm	
8.	Tar	none	-	
9.	Formaldehyde	max 1	ppm	
10.	Phenols and cresols	max 1	ppm	
11.	Free chlorine	max 1	ppm	
12.	Zinc	max 5	ppm	
13.	Chromium	max 0.5	ppm	
14.	Arsenic	max 0.25	ppm	
15.	Copper	max 1.0	ppm	
16.	Mercury	max 0.005	ppm	
17.	Cadmium	max 0.03	ppm	
18.	Barium	max 1.0	ppm	
19.	Selenium	max 0.02	ppm	
20.	Lead	max 0.2	ppm	
21.	Nickel	max 0.2	ppm	
22.	Insecticides	None	-	
23.	Radioactive Materials	None	-	
24.	Temperature	max 40	ºC	
25.	Colour and Odor	-		Not objectionable when mixed in receiving water

Source: Ministry of Industry

2.6.5 Institutional Arrangement

For implementing the project, a Project Management Unit (PMU) is expected to be set up at Denso Industrial Asia Ltd. Figure 2.6.5-1 shows the proposed organizational chart of the PMU. Under the supervision of the PMU HSE department will be set. One HSE manager will be assigned as responsible section for environmental and social consideration of the Project.

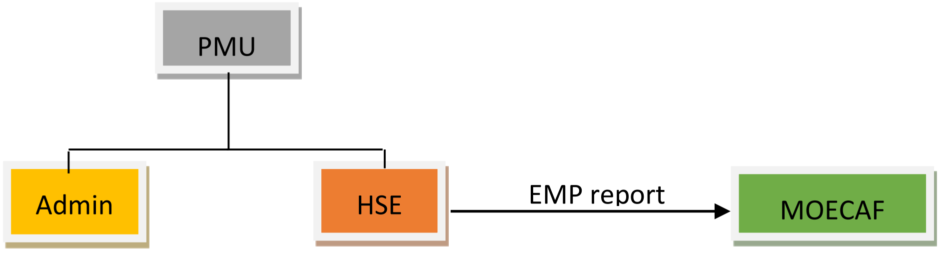


Figure 2.6-1 Organization chart for Environmental Management and Monitoring.

Chapter III Overview of Environmental and Social Baseline Conditions

3.1 Introduction

As part of this study, REM's environmental consultant team visited the proposed factory compound during third week of April, 2014. The purpose of the visit is to observe the environmental and social features of the area preliminarily and to collect primary information on the development of the factory. During the immediate field visit, REM team has studied the geographical, environmental and social situation of proposed area and its surrounding environment. Existing information on environment of the project is referred from recent measurement of the consultant and secondary data from various sources. Air and noise quality, soil and water quality are outlined for estimating potential impacts of the project.

3.2 Overview of Physical Environment

The existing physical environment in and around the proposed project site is studied based on the secondary data especially for geology, soil type, hydrology, and climate condition.

On the other hands, the prevailing condition of the physical environment is also studied by the available secondary data such as air quality condition, and noise quality condition around the project site.

3.2.1 Physiography and Drainage

The proposed project site is located in Hlaing Thar Yar Township which is one of the new towns emerged after 1988 in the suburban areas of Yangon city. It is also bounded by the two rivers; Hlaing River in the east and Panhlaing River in the south respectively.

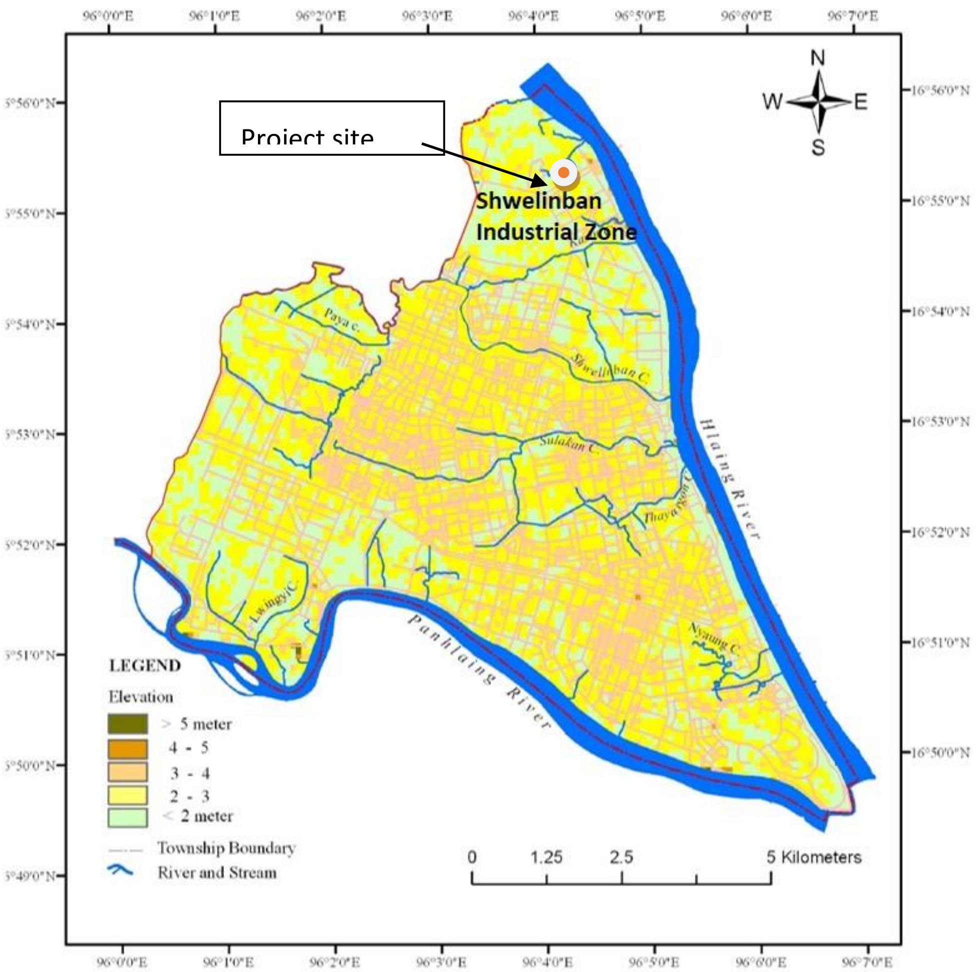


Figure 3.2-1 Map showing elevation above sea level shown in color shading and Drainage system in Hlaingtharyar Township (Source: Department of Geography, University of Yangon, 2011, GIS map based on UTM Map No. 16960, (2004), Survey Department and DEM)

The relief of the township is low and flat with a maximum elevation of about 5 meters above sea level only in a few area. Generally, most part of the region is lower than 5 meters. The area around Shwelinban Industrial Zone has a range of elevation from less than 2 to 3 meters. The area along the western bank of Hlaing River is relatively lower and liable to inundation in the rainy season.

The main streams are the Hlaing and Panhlaing rivers. The Hlaing River serves as the eastern boundary for about 13.72km (8.53mile). The river is the southern continuation of the Myitmakha River and it

flows south as the Yangon River into the Gulf of Mottama. Kasin, Shwelinpan, Sulatan, Tharyargon and Nyaungchaung creeks flow from the west into the Hlaing River. In response to seasonal rain, the depth and velocity of water in the rivers change markedly between the wet and dry seasons.

3.2.2 Geology of Hlaing Thar Yar Area

Stratigraphy and Lithostratigraphic units of the study area are described in Table 3.2.2-1. The uppermost unit of Hlaing Thar Yar Area is covered by alluvial deposit of recent geological age which is mainly composed of clay and silt with trace of sand. The recent alluvial deposit is underlain by Valley-filled deposits of Pleistocene age which are mainly of clay, silt, sand and fine to very coarse gravels, serving as a good reservoir as it is saturated with groundwater and yields large amount of water to all wells in Hlaing Thar Yar area. The Valley-filled unit is underlain by Danyingon Clay unit which consists mainly of reddish brown, grey to blue, laminated clays with interbedded sandstones.

Table 3.2.2-1 The Lithostatigraphic Units of Hlaing Thar Yar Township

Stratigraphic Unit	Geological Age	Lithostratigraphic Units	Stratigraphic Thickness (in feet)
Younger Alluvium	Recent	Alluvial Deposits	0 - 50
Irrawaddy Formation	Pleistocene	Valley-filled deposits	60 - 300
	Pliocene	Danyingone Clays	NA
		Arzanigone Sandrocks	NA

(**Source**: *Win Naing, 1972, The Hydrogeology of Greater Yangon*)

Danyingon clays unit is also underlain by Arzanigon sandstone unit which are of Pliocene age and are composed of yellowish gray to bluish grey loosely cemented sandstone, fine to coarse grained sometimes very coarse to gritty with intercalated clays and mudstone and siltstones. Although the unit yields moderate to fairly high amount of water through tube wells, iron content is undesirably high.

3.2.3 Climate Condition of Hlaing Thar Yar Area

As the studied area, Hlaing Thar Yar Township, is located in the low latitude area, the temperatures are high, except a few months in the cool season. The climatic conditions are the manifestation of seasonal shift of monsoon winds.

Based on the data acquired from Kabaraye meteorological station, the annual mean temperature is 24.9° C (76.82°F). The monthly mean temperature is highest in April with 30.5° C (86.9 °F) and lowest in January with 25.0° C (77°F). The annual range of temperature is 5.5° C (41.9°F). The low range is due to proximity to the sea. The monthly mean maximum temperature is considerably high in the hot dry season which often rise up to 40° C (104°F). Such intense heat enhances the rate of evaporation which in turn increases the amount of soil moisture deficit. The monthly minimum mean temperatures are moderate and warm even in the cool season (Table 3.2.3-1, Figure 3.2.3-1).

Table 3.2.3-1 Temperature and Rainfall Conditions of Yangon area during 1998 and 2007 (Source: Data acquired from Department of Meteorological and Hydrology, Yangon, 2007)

Element	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Average
Monthly Rainfall (mm)	0.1	0.9	15.8	69.3	424.8	559.0	553.6	542.7	445.0	194.6	43.3	11.8	2861.2
Maximum Temperature (°C)	33.5	35.6	36.9	37.8	33.4	30.9	30.3	30.1	30.9	32.9	34.0	33.0	33.3
Minimum Temperature (°C)	16.6	18.1	20.4	23.2	23.2	22.6	22.4	22.4	22.5	22.5	20.5	17.3	21.0
Mean Temperature (°C)	25.0	26.8	28.7	30.5	28.3	26.7	26.4	26.3	26.7	27.7	27.2	25.2	24.9

The mean annual total rainfall is 2861.2 mm and it is received during the period from the second week of May to the end of October. Rainfall is highly seasonal and the dry period lasts for about 6 months and the long dry period is the chief reason of scarcity of water, as some households have no access to

central water supply system and cannot afford to sink tube-well. According to Koppen's climatic classification, the type of climate is Tropical Monsoon, distinct alternating wet and dry seasons.

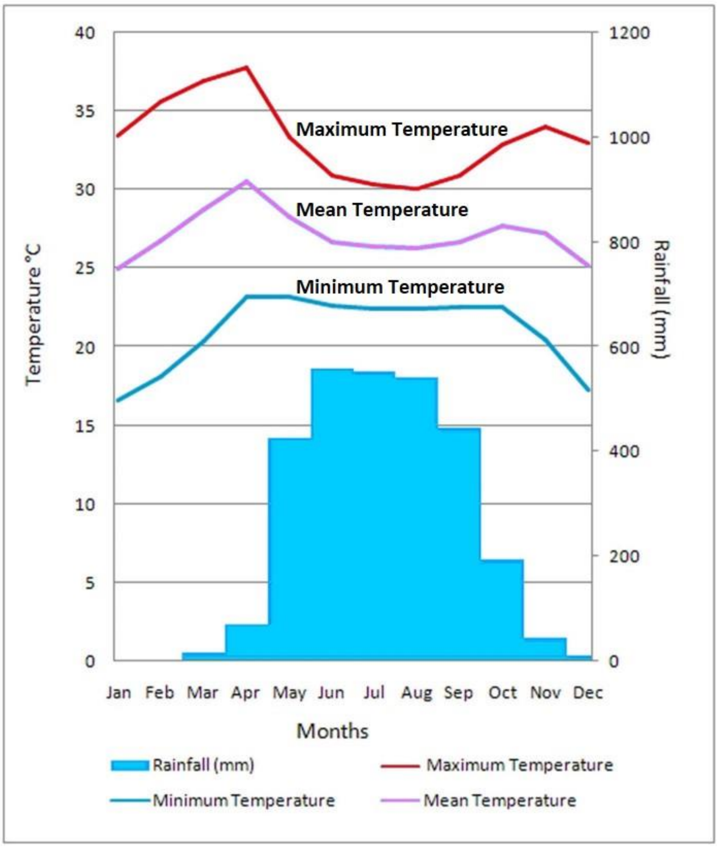


Figure 3.2.3-1 Climatograph of Hlaingtharyar Township during 1998 and 2007 based on the data from Table 3.2.3-1

Generally the climatic condition of the study area is favorable for human settlement, although occasional flooding and intense heat are undesirable. The flooding not only restricts the movement of people, but also causes the surface water highly contaminated which in turn leads to the incidence of water borne diseases to the inhabitants.

3.2.4 Soil Type

High temperature and abundant rainfall enhance soil formation. Most soils that develop within the township are derived from alluvium and thus the resultant soils are of ***meadow soils group***. Meadow soils cover most of the township area. Meadow gray soils develop in poorly drained areas. Meadow alluvial soils occur along both sides of the river banks of Hlaing and Panhlaing rivers.

As these soils have not matured, only thin “A” horizon is observed. The color ranges from grey to dark grey. Owing to high content of clay it is less impermeable and thus suitable for growing paddy. That soil has bluish grey or grey color with reddish or reddish brown spots. The clay content is high, resulting in water logging in the raining season. The PH value of the soils is between 5.6 and 6.5. These soils can be used as paddy land when after some modification. Salty mud flat develops within tidal forest (Myanmar Land Use Bureau, 1957). The meadow soils and their derivatives become slippery and sticky when wet and thus it needs to be hardened to have firm foundation for buildings or roads.

3.2.5 Natural Vegetation

The existing primary natural vegetation had been removed even before the establishment of the townships, since the area was used as paddy farmland and village land. The scattered large trees and most of the planted shade trees were destroyed by the powerful Nargis Storm in May, 2008. There are still some trees and Kokko (*Albizzia lebbek*), Khayay (*mimusops*), Padauk (*Pterocarpus macrocarpus*), Mango (*Curcuma amada*), Coconut (*Cocos nucifera*) and Nyaung (*Ficus obtusifolia*) are more common along the roads and some fruit trees within the house compounds. Along the creeks are some tidal forest species such as Lamu, Thahne and Dhani.

3.2.6 Wildlife Inhabitants

No wildlife inhabitants are present within the study area as the area is occupied by human residences and related buildings and infrastructures. A few bird species, mostly crow, sparrow and pigeon are fairly common, in addition to some snakes.

3.2.7 Air Quality

3.2.7.1 Relevant Air Quality Legislations and Guidelines

In views of legal policies and framework, Ministry of Environmental Affairs & Forestry signed/ratified the International Environmental conventions / protocols and agreements relating to air quality and they are detailed in Table 3.2.7-1

Table 3.2.7-1 International Air Quality Conventions/Protocols/Agreements Signed/Ratified by Myanmar

International Environmental Conventions/Protocols/Agreement	Date of Signature	Date of Ratification	Date of Member	Cabinet Approval Date
1. Kyoto Protocol to the Convention on Climate Change, Kyoto, 1997		13-8-2003 (Accession)		26/2003 (16-7-2003)
2. ASEAN Agreement on Transboundary Haze Pollution	10-6-2002	13-3-2003 (Ratification)		7/2003 (27-2-2003)
3. United Nations Framework Convention on Climate Change, New York, 1992 (UNFCCC)	11-6-1992	25-11-1994 (Ratification)		41/94 9-11-1994
4. London Amendment to the Montreal Protocol on Substances that Deplete the Ozone Layer, London, 1990		24-11-1993 (Ratification)	22-9-1994	46/93
5. Montreal Protocol on Substances that Deplete the Ozone Layer, Montreal, 1987		24-11-1993 (Ratification)	22-9-1994	46/93
6. Vienna Convention for the Protection of the Ozone Layer, Vienna, 1985		24-11-1993 (Ratification)	22-9-1994	46/93

3.2.7.2 Myanmar Laws and Regulations Relating to Emissions

Administrative Sector

1. The Explosive Substances Act, 1908
2. The Emergency Provisions Act, 1950

City Development Sector

3. The City of Yangon Municipal Act, 1922

(The Law Amending the City of Yangon Municipal Act, 1991) concerns emission of smoke, steam, particulates and toxic gases.

3.2.7.3. International Air Quality Guidelines and Standards

Air pollutants can have acute (short-term) and/or chronic (long-term) effects on human health/ecosystems. Therefore, air quality guidelines and thresholds are fundamentals to effective air quality management at the proposed project site. In terms of ambient air quality standard, there is no own air quality standard in Myanmar yet therefore the relevant guidelines and standards are adopted to compare with the findings. Table 3.2.7-2 presents relevant air quality guidelines and standards.

Table 3.2.7-2 WHO, USEPA, World Bank and EU Ambient Air Quality Standards/Guidelines

Pollutant	Averaging Period	Limit/Guideline Value/ Standards (μgm-³)	Relevant Standards/ Guidelines
NO_2	1 year	40	WHO Guideline
		100	NAAQS (USEPA)
		40 30	EU (human health) EU (vegetation)
		40	WHO Guideline
	24 hour	100	NAAQS (USEPA)
		150	WHO/World Bank
	1 hour	200	WHO Guideline
		200	EU (human health)
SO_2	1 year	50	WHO Guideline
		50	World Bank
		20	EU (ecosystem)
	24 hours	20	WHO Guideline
		80	NAAQS (USEPA)
		125	World Bank
		125	EU (human health)
	1 hour	365	NAAQS (USEPA)
		350	EU (human health)
CO	8 hour	10,000	WHO Guideline
		10,000	World Bank
		10,000	EU standard
	1 hour	30,000	WHO Guideline
		40,000	NAAQS (USEPA)
$PM_{2.5}$	1 year	10	WHO
	24 hour	25	WHO
		35	NAAQS (USEPA)
		50	World Bank
PM_{10}	1yr	40	EU (Stage 1) (human health)
		20	EU (stage 2) (human health)
		20	WHO Guideline
	24 hour	50	EU (Stage 1) (human health)
		50	EU (stage 2) (human health)
		50	WHO Guideline
		150	NAAQS (USEPA)
		70	World Bank
TSPM	24 hours		100

Source: WHO guidelines, 2005, USEPA National Ambient Air Quality Standards (40 CFR part 50), World bank

www.saaqis.org.za/filedownload.aspx?fileid=286)

3.2.7.4 Baseline Ambient Air Quality

Based on the geography of Hlaing Thar Yar Industrial zone, most areas are relatively uniform and flat region. Moreover, land use can be assumed to be more or less similar in nature depending on the locality like commercial, residential and nearby industrial source accordingly. Based on the prevailing wind directions of the proposed project site, the ambient air samples were collected from one location.

The air quality survey recorded the 24-hour average of Total Suspended Particulates (TSPM), Particulate Matter (PM10), Carbon Monoxide (CO), Sulphur Dioxide (SO_2), Nitrogen Dioxide (NO_2) and Volatile Organic Carbon (VOC) simultaneously along with meteorology condition at the monitoring sites.

Generally, the existing baseline level of dust (respirable PM10) in selected site was slightly higher than WHO guideline. According to the observations, these particles could have derived from wind-blown dust of open land as well as from construction activities nearby the factory project where there are some excavation sites rather than from industrial sources.

Baseline air quality for the air pollutants (CO, VOC and SO_2) indicated that the air quality around the proposed project site was good.

(a) Ambient Dust Levels

The results from the baseline survey indicated that the 24-hour average levels of PM 2.5 is less than WHO guideline whereas PM 10 is not met with the WHO guideline but it is met with the NAAQS (USEPA) standard.

Table 3.2.7-3 Baseline PM10 and TSPM Concentrations in Hlaing Thar Yar (24-hr Average)

Location	PM10 in μg/m³	TSPM in μg/m³
Point 3 (near to West Yangon University)		
Day & Night (average)	**45.25**	**249**
Yangon Data; 2007-2008	**136.92**	**188.66**
WHO guideline	50[1]	100[1]
NAAQS (USEPA)	150[1]	NA

(1) 24hr average

Bold indicates higher than WHO air quality guidelines

NA – not available

Yangon data was conducted near around point 1 in the November, 2008.

(b) Ambient Gaseous Levels

Table 3.2.7-4 presents the results of the ambient gases levels continuously monitored per minute over an average 24-hr period in the Hlaing Thar Yar Industrial area.

The survey results at the air monitoring station indicated that baseline contents of CO, SO_2 and NO_2 are met both the WHO guideline and NAAQS (USEPA) standard.

Table 3.2.7-4 Baseline Ambient Gases Levels (24-hr Average)

Location	CO ppm	VOC ppm	SO2 ppb	NO2 ppb
Point 3 (West Yangon University)				
Day & Night (average)	0	0	2.16	37.5
Yangon Data; 2007-2008	NA	NA	2.23	22.88
WHO guideline	NA	NA	20[1]	40 (annual)
NAAQS (USEPA)	9(8hr)	NA	0.5(3hr)	53(annual)

(1) 24hr average

Bold indicates higher than WHO air quality guidelines

NA – not available

Yangon Data was conducted in Insein near around the proposed project site in November, 2008

(c) Local Climate

Table 3.2.7-5 presents 24hr average condition of local climate during the sampling period.

Table 3.2.7-5 Local meteorology (24-hr Average)

Sr	Temperature Deg (C)	Relative Humidity (RH) %	Wind Speed (kph)	Wind Direction (Deg)
1	31	73	3	150

3.2.8 Noise Condition in the Present Project Area

3.2.8.1 Introduction

In this study, we used the secondary data of noise quality for the future noise prediction.

The impact of noise sources on surrounding community depends on:

- Characteristics of the noise sources (instantaneous, intermittent or continuous in nature). It is well known that a steady noise is not as annoying as one that is continuously varying in loudness.
- The time of day at which noise occurs, for example loud noise levels at night in residential areas are not acceptable because of sleep disturbance.
- The location of the noise source, with respect to noise sensitive land use, which determines the loudness and period of noise exposure.

3.2.8.3 Equivalent Sound Pressure Level (Leq)

The Leq is the equivalent continuous sound level, which is equivalent to the same necessary because sound from noise source often fluctuates widely during a given period of time. This is calculated from the following equation:

Leq (hrly) = L50+ (L10 - L90)2/60

Also:

- L_{day} is defined as the equivalent noise level measured over a period of time during day (6 am to 10 pm).
- L_{night} is defined as the equivalent noise level measured over a period of time during night (10 pm to 6 am).

Ambient noise quality result of the Hlaing Thar Yar is as given in Table 3.2.8-1 and Figure 3.2.8-1.

Table 3.2.8-1 Hourly Noise data (Day and Night timings in Leq dB(A))

Site Code	**N1**
6:00-7:00	46.861
7:00-8:00	45.586
8:00-9:00	51.604
9:00:-10:00	61.994
10:00-11:00	64.200
11:00-12:00	52.588
12:00-13:00	47.804
13:00-14:00	62.474
14:00-15:00	44.542
15:00-16:00	50.954
16:00-17:00	53.153
17:00-18:00	54.038
18:00-19:00	47.028
19:00-20:00	45.994
20:00-21:00	48.700
21:00-22:00	50.138
L_{day}	51.728
Day Limit	75
Night Hours	
22:00-23:00	54.760
23:00-00:00	51.524
00:00-1:00	52.263
1:00-2:00	50.211
2:00-3:00	41.133
3:00-4:00	45.617
4:00-5:00	46.141
5:00-6:00	43.154
L_{night}	48.100
Limit	70

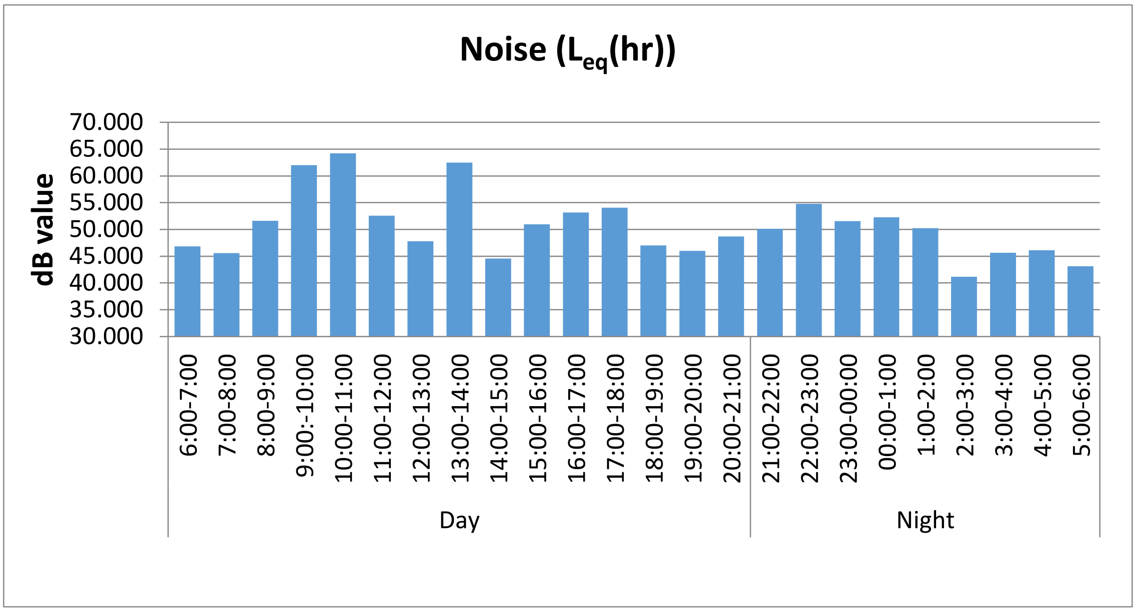


Figure 3.2.8-1 Variation of noise level during day time and night time in Hlaing Thar Yar Industrial zone.

The variation of noise level during day time and night time in Hlaing Thar Yar area is shown in Figure 3.2.8-1. The equivalent noise level L_{eq}24 hr (L_{day}) values of one location was 51.73 dB(A) and L_{night} value was 48.10 dB(A). These values are lower than the noise level standard of World Bank Standard. The main noise source probably comes from vehicle traffic.

3.3 Overview of Social Environment

The proposed factory is located in the Hlaing Thar Yar Township and the brief demographic profile of the Township is described below.

Hlaing Thar Yar Township is relatively a new town of Yangon City is located on a flat land with the average height of 100 feet above sea level. Pan Hlaing River which is the southern boundary of the township is flowing into Hlaing River from the west. Hlaing Thar Yar Township is located in the western bank of Hlaing River and is bounded by Insein Township in the east, Htantapin Township in the west, Twantay Township in the south and Shwepyithar Township in the north. Hlaing Thar Yar Township is connected old Yangon City with Bayintnaung Bridge, Anawyahta Bridge and Shwepyithar Bridge.

Population density of Hlaing Tha Yar is 14463.15 person/ mile^2 (5584.66 person/ km^2) and then population growth is around 7.15%/year during 1998 to 2011. Number of students is equivalent to 20% of total township population and so it can be estimated that daytime-nighttime population ratio will be high. More than 26 % of its employment is in the tertiary sector when around 10.05 % is primary employment, Domestic net production and value of services is 0.5 million kyat/person.

Public transportation modes in this township are road and railways transportation. In this township, sources of water for drinking and other use of residents are pipe water and tube well. For telecommunication sector, rate of household with land phone is about 0.12 % and it shows very low rate within Yangon Region.

Land use data shows that 3309 acres (13.39 km^2) cultivated land. For education sector, school enrollment rate of 5 years old children is 100 % but percentage of students eligible for university is only about 30.72 %.

The demographic profile of Hlaing Thar Yar Township is shown in Table 3.3-1.

Table 3.3-1 Profile of Hlaing Thar Yar Township.

LOCATION AND GEOGRAPHY	
Terrain	Latitude 17 to 17.10, Longitude 96 to 96.3
Above Sea Level	100 ft (30.48m)
Adjacent Territory (E/W/S/N)	Insein, Htantapin,Twantay, Shwepyithar
TOWNSHIP PROFILE	
Administration Structure	Ward 20
Main Three Ethnicity	Bamar 92.9%, Rakhine1.41%, Karen1.6%
Religion	Buddhist 174.90%, Christian 3.11%, Hindu 4.07%, Muslim 1.81%
DEMOGRAPHIC DATA	
Population (1998)	199,190
Population (2011)	488,768
Ratio of Male/ Female	1: 1.07 (Male 181110, Female 194932)
Ratio of Under 18 Years and Above 18 Years	1: 2.62
Share in Yangon Total Population (%) (2003)	8.3
Ave. Population Growth Rate 2000-2011 (%/yr)	7.15
Gross Population Density (2011)	14463.15 person/mile^2 (5584.66 person/km^2)
HOUSEHOLD INFORMATION	

Numbers of House	57,770
Numbers of Household	80,101
Ratio of Urban and Rural Household	Urban Only
Average Household Size (persons)	6
Average Monthly Household Income	212,308
INDUSTRIAL FIGURE	
Primary: Secondary: Tertiary Employee	**10.05: 68.83: 26.13**
Share of Population in Employment (%)	16
Sutdents in Total Population (%)	16
Domestic Net Production and Value of Services	**101,946.2 million kyat (0.5 million kyat/ person)**
Cultivated Land Area	3309 acre (13.39 km^2)
Fishery Farm Area	0
Numbers of Livestock	25,248
Numbers of Factory	740 (Public 1, Private 739)
Numbers of Main Market	14
INFRASTRUCTURE	
Road Length	64.9 mile (104.09 km)
Road Area (km^2)	
Railway Length (mile)	0.00
Inland water (mile)	3 mile (4.81 km)
Numbers of Bridge	Over 180 ft (0.05 km) 5
Numbers of Harbors	0
Numbers of Electric Power Plant	0
Distributed Electricity (kW)	626,000
Source of Water	Pipe water & Tube Well
Household with Telephones (%)	0.12
Household with Mobile Phones (%)	0.31
LAND USE (2012)	
Area	26 $mile^2$ (67.33 km^2)
SAFETY AND SECURITY	
Crime-fighting Force	223
Raito of Police Person and Population	1 : 1,686
Fire Brigade	Permanent 7, Reserve 261, Fire truck 41
Numbers of Crimes	Major 10 Crimes (21/year), Other Minor 7s (622/year)
EDUCATION	
Numbers of University & College/ No. Students	1/7400
Numbers of High School/ No. of Students	6/7342
Numbers of Middle School/ No. of Students	15/21200

Numbers of Primary School/ No. of Students	37/40035
Numbers of Pre School/ No. of Students	2/192
Numbers of Monastery Education/ No. of Students	10/3048
School Enrollment Rate of 5 Years Old Children (%)	100
Percentage of Students Eligible for University (%)	30.72
HEALTH	
Numbers of Hospital/ Clinic/ Maternity Center	3/3/0
Numbers of Doctor per 1,000	0.01
Death Rate during Child Birth (per 1,000)	6
Abortion (%)	3
RELIGIOUS	
Numbers of Pagoda/ Buddhist Temple	3/93
Numbers of Church	0
Numbers of Mosque	0
Numbers of Hindu Temple	0
Numbers of Chinese Temple	0
ENTERTAINMENT	
Numbers of Cinema	1
Numbers of Playground	5
Numbers of Park	2
Common Diseases and Occurrence Numbers	Malaria 33, Diarrheal 227, TB 444, Stomach Ailment64, Hepatitis 10

CHAPTER 4: SCOPING FOR INVESTIGATION OF INITIAL ENVIRONMENTAL EXAMINATION

4.1 Scoping for Initial Environmental Examination

The followings are the potential evidences and the degrees of impacts, which could arise at the time of project implementation for construction and operation of wire harness factory. The REA check list for this proposed project is also prepared. Rapid Environmental Check List (REA) for the proposed project is shown in Table 4.1-2.

Table 4.1-1 Results of Scoping

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
Pollution	Air Quality	B-	D	**DC:** Emissions from construction equipment, dust arising from construction and renovation activities, and air pollutants due to construction vehicles are anticipated. **OS:** Air pollution impacts will not be anticipated because there are no emission sources.
	Water Quality	B-	D	**DC:** Muddy water inflows to drainage from bare land of construction site may deteriorate water quality. **OS:** It is not anticipated that the factory may cause water pollution to the rivers, channels, and water sources in the surrounding area.
	Solid Waste	B-	D	**DC:** Generation of construction waste by construction activities and removal of structure are anticipated. **OS:** Impact on solid waste is not anticipated because there is good solid waste collection system.
	Soil Contamination	C	D	**DC:** It is necessary to confirm existing status soil contamination in the project area. **OS:** No activities causing soil contamination are anticipated.
	Noise / Vibration	B-	B-	**DC:** Noise and vibration from operation of construction machinery and on-site vehicles are anticipated. **OS:** Noise impacts will be anticipated because of using machine.
	Subsidence	D	D	Intake of underground water that cause subsidence are not anticipated.
Natural Environment	Natural Preserve	D	D	No natural preserve area exists in and around the project site.
	Flora/ Fauna	D	D	No impact on flora and fauna. The project site is within the industrial compound.
Social Environment	Involuntary Resettlement	D	D	The project site is within the industrial compound. The proper land acquisition has been done.
	Poor	B+	B+	**DC:** Job opportunity and commercial activities may be enhanced by construction works that lead the poor to increase their earnings. **OS:** By operation of the factory, local people from surrounding areas may get jobs and economical activities may be enhanced that leads poor to increase their earnings.
	Indigenous and Minor People	D	D	No indigenous and minority people are in and around the site.
	Local economy such as employment and livelihood	B+	B+	**DC:** There will be job opportunities for locals and the regional economy will be boosted. Moreover, the other local resources and food will be procured at the site. **OS:** The local economy and employment will be boosted with the improvement of the operation.
	Water Use	D	D	Because the project does not use water and domestic use for workers, no significant impact on water use is anticipated
	Cultural Heritage	D	D	The project site is located within the industrial zone, there might be no change to existing land and no impact to cultural heritage is anticipated.
	Gender	D	D	No negative impact on gender is anticipated.
	Working Environment	B-	D	**DC:** It is necessary to consider occupational safety and health during construction. Also, accidents to a third person are anticipated. **OS:** There are no significant negative impacts to labors at the operation stage.
Others	Accident	B-	B-	**DC:** It is necessary to consider accidents during construction. **OS:** It is necessary to consider accidents during construction.

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
	Global Warming	D	D	No significant impact is anticipated because the project is existing building expansion project, thus construction area is limited. In addition, the project does not include large scale deforestation which may cause global warming directly.

Evaluation: A-: Significant Negative Impact A+: Significant Positive Impact
B-: Some Negative Impact B+: Some Positive Impact
C: Impacts are not clear, need more investigation
D: No Impacts or Impacts are negligible, no further study required

Table 4.1-2 Results of Scoping

Rapid Environmental Assessment (REA) Checklist

Wire Harness

Instructions:

☐ This checklist focuses on environmental issues and concerns. To ensure that social dimensions are adequately considered, refer also to ADB checklists and handbooks on (i) involuntary resettlement, (ii) indigenous peoples planning, (iii) poverty reduction, (iv) participation, and (v) gender and development.

Country/Project Title: Initial Environmental Examination and EMP for Manufacturing of Wire Harness in Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township

Sector Division: Yangon Region

SCREENING QUESTIONS	Yes	No	REMARKS
A. Project Siting In this project area…	☐	☐	The project site is within the industrial zone
▪ Densely population?	☐	N	
▪ Heavy with development activities?	☐	N	
▪ Adjacent to or within any environmentally sensitive areas?	☐	N	
▪ Cultural heritage site	☐	N	
▪ Protected Area	☐	N	
▪ Wetland	☐	N	

▪ Mangrove	☐	N	
▪ Estuarine	☐	N	
▪ Buffer zone of protected area	☐	N	
▪ Special area for protecting biodiversity	☐	N	
▪ Bay	☐	N	
B. Potential Environmental Impacts Will the Project cause…..	☐	☐	
▪ Impairment of historical/cultural monuments/areas, and loss/damage to these sites?	☐	N	
▪ Hazard of land subsidence caused by excessive ground water pumping?	☐	N	For domestic use only
▪ Social conflicts arising from displacement of communities?	☐	N	No project affected persons, no relocation activity
▪ Conflicts in abstraction of raw water for water supply with other beneficial water uses for surface and ground waters?	☐	N	
▪ Unsatisfactory raw water supply (e.g. excessive pathogens or mineral constituents)?	☐	N	
▪ Delivery of unsafe water to distribution system?	☐	N	
▪ Inadequate protection of intake works or wells, leading to pollution of water supply?	☐	N	
▪ Over pumping of ground water, leading to Stalinization and ground subsidence?	☐	N	
▪ Excessive algal growth in storage reservoir?	☐	N	
▪ Increase in production of sewage beyond capabilities of community facilities?	☐	N	
▪ Inadequate disposal of sludge from water treatment plants?	☐	N	No waste water
▪ Inadequate buffer zone around pumping and treatment plants to alleviate noise and other possible nuisances and protect facilities?	☐	N	
▪ Impairments associated with transmission lines and access roads?	☐	N	
▪ Health hazards arising from inadequate design of facilities for receiving, storing, and handling of chlorine and other hazardous chemicals.	☐	N	Only wire harness industry
▪ Health and safety hazards to workers from the management of chlorine used for disinfection and other contaminants?	☐	N	
▪ Dislocation or involuntary resettlement of people	☐	N	
▪ Social conflicts between construction workers from other areas and community workers?	☐	N	Technology transfer and train to local people and local experts management after 3 years
▪ Noise and dust from construction activities?	Y	N	Short term for renovation of existing structure

▪ Continuing soil erosion/silt runoff form construction activities?	☐	N	
▪ Delivery of unsafe water due to poor O&M treatment processes (especially mud accumulations in filters) and inadequate chlorination due to lack of adequate monitoring of chlorine residuals in distribution systems?	☐	N	
▪ Delivery of water to distribution system, which is corrosive due to inadequate attention to feeding of corrective chemicals?	☐	N	
▪ Accidental leakage of chlorine gas?	☐	N	
▪ Excessive abstraction of water affecting downstream water users?	☐	N	
▪ Competing uses of water?	☐	N	
▪ Increased sewage flow due to increased water supply	☐	N	
▪ Increased volume of sullage (wastewater from cooking and washing) and sludge from wastewater treatment plant.	☐	N	Shall install water treatment unit

CHAPTER 5 INITIAL ENVIRONMENTAL EXAMINATION and ENVIRONMENTAL MANAGEMENT PLAN

5.1 Potential Environmental Impact Identification, Evaluation and Mitigation

The identification and evaluation of potential environmental and social impacts arising from proposed factory have been carefully conducted by considering the activities of proposed project versus current social and environmental conditions during construction and subsequent operational period.

Owing to the location, nature of project, the significant level of impacts are low as long as recommended mitigation measures are effectively and properly implemented and managed.

Initial Environmental Examination on manufacturing of wire harness project is predicted and evaluated based on the Project description, existing environmental setting. Table 5.1-1 is the results of the IEE on the potential impacts identified as A, B, and C by scoping.

Table 5.1-2 Results of IEE

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
Pollution	Air Quality	B-	D	**DC:** Emissions from construction equipment, dust arising from construction and renovation activities, and air pollutants due to construction vehicles are anticipated. But impact is short time and construction site is small area. **OS:** Air pollution impacts will not be anticipated because there are no emission sources.
	Water Quality	B-	D	**DC:** Muddy water inflows to drainage from bare land of construction site may deteriorate water quality. **OS:** It is not anticipated that the factory may cause water pollution to the rivers, channels, and water sources in the surrounding area.
	Solid Waste	B-	D	**DC:** Generation of construction waste by construction activities and removal of structure are anticipated. **OS:** Impact on solid waste is not anticipated because there is good solid waste collection system.
	Soil Contamination	D	D	**DC:** No impact on soil contamination. **OS:** No activities causing soil contamination are anticipated.
	Noise / Vibration	B-	B-	**DC:** Noise and vibration from operation of construction machinery and on-site vehicles are anticipated. **OS:** Noise impacts will be anticipated because of mainly indoor noise from machines.
	Subsidence	D	D	Using underground water that cause subsidence are not anticipated.
Natural Environment	Natural Preserve	D	D	No natural preserve area exists in and around the project site.
	Flora/ Fauna	D	D	No impact on flora and fauna. The project site is within the industrial compound.
Social Environment	Involuntary Resettlement	D	D	The project site is within the industrial compound. The proper land acquisition has been done.
	Poor	B+	B+	**DC:** Job opportunity and commercial activities may be enhanced by construction works that lead the poor to increase their earnings. **OS:** By operation of the factory, local people from surrounding areas may get jobs and economical activities may be enhanced that leads poor to increase their earnings.
	Indigenous and Minor People	D	D	No indigenous and minority people are in and around the site.
	Local economy such as employment and livelihood	B+	B+	**DC:** There will be job opportunities for locals and the regional economy will be boosted. Moreover, the other local resources and food will be procured at the site. **OS:** The local economy and employment will be boosted with the improvement of the operation.
	Water Use	D	D	Because the project does not use water and domestic use for workers, no significant impact on water use is anticipated
	Cultural Heritage	D	D	The project site is located within the industrial zone, there might be no change to existing land and no impact to cultural heritage is anticipated.
	Gender	D	D	No negative impact on gender is anticipated.

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
	Working Environment	B-	D	**DC:** It is necessary to consider occupational safety and health during construction. Also, accidents to a third person are anticipated. **OS:** There are no significant negative impacts to labors at the operation stage.
Others	Accident	B-	B-	**DC:** It is necessary to consider accidents during construction. **OS:** It is necessary to consider accidents during construction.
	Global Warming	D	D	No significant impact is anticipated because the project is existing building expansion project, thus construction area is limited. In addition, the project does not include large scale deforestation which may cause global warming directly.

5.1.1 Impact to Flora and Fauna

The proposed project area has been designated as industrial zone and the location of factory is already cleared and filled with surplus earth. There is no prominent vegetation or fauna species exist within the fenced area. Hence, no potential impact to flora and fauna by the project activities is anticipated.

5.1.2 Impact due to Sewage Treatment and Disposal (construction and operation)

A proper sewage treatment unit shall be installed at the facility. Only the overflow of sewage which meets the effluent standard of internally practice, shall be discharged into the drainage. The remaining sludge inside septic is to be removed by contractor or city development service and finally transported to the waste water treatment. If the unit is effective and disposal service is running smoothly, there is no potential issue due to the sewage discharge of the facility is expected.

5.1.3 Industrial Waste Water (construction and operation)

The proposed factory is CMP basic production and no large quantity of chemical is intended to use and consequently no industrial waste water is anticipated to discharge.

5.1.4 Impact to surface water and groundwater quality

The construction and operation of the factory will not have any major impact to surface water and groundwater quality as mentioned adequate design and control measure are effectively managed and implemented. The surface runoff, waste management and spill containment plans are recommended to ensure that no spills or contaminated water released into the nearest water body.

5.1.5 Impact to Community and Employees Health by Dust Emission

The source of dust generated during the construction of the proposed project are probably production area, vehicle movement in exposed land and soil stockpile area. For the dust control measures, company is intended to use proper dust collector, vacuum cleaner, and screen at the source of dust creating device and activities. By applying these control measures, it is evaluated that the dust emission of the factory

is not likely to become significant issue and any impact related to the dust emission is negligible. Planting the tree is other consideration as those act as screen by hindering the movement of the dust.

5.1.6 Impact to Community and Employees Health by Noise

The movement of vehicles, transportation of material, machine operating in production line, cutting, grinding are the major sources of noise in the general industry. Noise is the unwanted nuisance that could impair the hearing ability of people in the situation that excessive noise level exposes repeatedly or continuous to the workers and community.

For the project in construction stage, major work shall take place in day time. Given the short duration of factory construction and machine foundation, the resulting noise impact is classified moderate in significant level, with the need of additional mitigation measures so as to attenuate the exposure to the local community and employees.

- Low noise emitting device/machine shall be used
- Vehicle/ engine are to be turned off while not in use
- High noise inducing activities shall be avoided in nigh time
- PPE for the workers working in noisy area
- Corrective action to take immediately if noise level is higher than occupational exposure limit

By providing these measures, it is predicted ambient noise level meet in occupational threshold limit at all times.

There is no ambient noise standard to receptors in Myanmar. However, most of the countries in south-east Asia have the ambient noise standard to receptors categorized land use or requirement of quiet as well as in Japan. International standard is also available in the EHS Guidelines prepared by IFC. Table 5.1.6-1 shows the target noise level and follows this standard in operation of garment factory.

Table 5.1.6-1 Ambient Noise Standard at Operation Stage in South-East Countries

Items		Day time (Leq)	Night time (Leq)
Indonesia	Noise standard for sensitive areas such as residences, hospitals, schools, places of religious worships	55 dB	
	Noise standard for office and commercial	65 dB	
	Noise standard for commercial and service	70 dB	
Malaysia	Sensitive Areas/ Low Density Residential Areas	55 dB (7am – 10pm, 15hrs)	50 dB (10pm – 7am, 9hrs)
	Sub Urban Residential	60 dB (7am – 10pm, 15hrs)	55 dB (10pm – 7am, 9hrs)
	Urban Residential	65 dB (7am – 10pm, 15hrs)	60 dB (10pm – 7am, 9hrs)
	Commercial and Business	70 dB (7am – 10pm, 15hrs)	60 dB (10pm – 7am, 9hrs)
Singapore	Sensitive Areas	60 dB (7am – 7pm, 12hrs)	55 dB (7pm – 10pm, 3hr) 50 dB (10pm – 7am, 9hr)
	Residential Areas	65 dB (7am – 7pm, 12hrs)	60 dB (7pm – 10pm, 3hr) 55 dB (10pm – 7am, 9hr)
	Commercial Areas	70 dB (7am – 7pm, 12hrs)	65 dB (7pm – 10pm, 3hr) 60 dB (10pm – 7am, 9hr)
Thailand	Noise standard	70 dB (24hrs)	
Japan	Sensitive Area (Class AA)	50 dB (6am – 10pm, 16hrs)	40 dB (10pm – 6pm, 8hrs)
	Residential Area (Class A and Class B)	55 dB (6am – 10pm, 16hrs)	45 dB (10pm – 6pm, 8hrs)
	Commercial and Industrial Area (Class C)	60 dB (6am – 10pm, 16hrs)	50 dB (10pm – 6pm, 8hrs)
IFC	Residential; institutional, educational	55 dB (7am – 10pm, 15hrs)	45 dB (10pm – 7am, 9hrs)
	Industrial; commercial	70 dB (7am – 10pm, 15hrs)	70 dB (10pm – 7am, 9hrs)

Source: Nose Standard in Indonesia (KEP-48/MENLH/11/1996)
Effect of Traffic Noise on Sleep: A Case Study in Serdang Raya, Selangor, Malaysia, Environment Asia, 2010
Environmental Protection and Management Act in Singapore (Chap.94A, Section 77, revised in 2008)
Notification of Environmental Board No. 15 B.E.2540(1997) under the Conservation and Enhancement of National Environmental Quality Act B.E.2535 (1992) dated March 12, B.E.2540 (1997) and Notification of Pollution Control Department ; Subject: Calculation of Noise Level Dated August 11, B.E. 2540 (1997) in Thailand

5.1.7 Fire Hazard

Improper storage, handling, transferring of fuel including bunker, diesel, gasoline could create major fire event that might in turn, develop injured to people, loss of life, damage to property, equipment of company and community living adjacent to the project site.

The proposed project is expected to be using generators for electrical power if the power is not available from national power grid. If it is the case, large amount of diesel and/or petrol could be stored and consumed for power supply in the factory facilities.

Despite the fact that storage facility and its fuel tank (over ground or underground) design remain unknown during the preparation of this report, following additional fire protection measures are recommended to adopt in considering of the fuel tank design, lay out plan of project and quality of device.

- Fuel tanks are to be constructed in accordance with international best practices.
- Fuel tanks shall be located in a safe distance from the possible ignition sources.
- Prevailing wind direction is to consider in the allocation of the tanks
- Fire safety plan and emergency management plan shall be set up.
- Rated electrical equipment /appliance are to be purchased.
- Electrical safety procedure has to be developed and incorporated into the project safety management system.
- Good housekeeping shall be maintained in the life of project
- Fire suppression system shall be facilitated.

- Appropriate training programs are to be set up and given to the employees such as fire safety, safe handling of fuel, advance firefighting.

5.2 Potential Social Impact Identification, Evaluation and Mitigation

The proposed factory is located in the industrial zone and it is also surrounded by houses of local residents. The social issues likely to cause due to the interaction between project activities and existing local community have been predicted by considering the various aspects of social receptors.

5.2.1 Land Use and Resettlement

The industrial zone is established with the purpose of development of industrial infrastructure by Yangon Regional Government. Since there is no household inside the compound, relocation and resettlement process are not involved in this project. For that reason, there is no Project Affected Peoples (PAPs) as well as there is no negative impact on socio-economic status of the indigenous people.

5.2.2 Culture Site

There is no historical, archaeological, historical and cultural important sites are located inside the industrial zone. Consequently, the impacts on these issues are not envisaged.

5.2.3 Positive Impact on Employment and skill

There will be more employment opportunities resulting from the existence of project. Hiring local people for semi –skilled and non –skilled work shall bring the beneficial aspect to local community and increase the income of individual family. The prospect of an increased income and greater autonomy is likely to cause an increase in the aspirations of local communities both those involved with the project and, to a lesser extent, those from other working individually. This is a direct positive effect with a moderate extent and long-term duration. As consequence, it is considered as a major beneficial impact resulted from the project.

In order to attain the benefit to local community, project should prioritize in hiring local people based on nearest villages and wards, while employing workers required both construction and operation period. The use of children as laborers shall be avoided. Some vocal training as per the requirement of the jobs should be organized. Such activities shall enhance the skill and knowledge of people and consequently improve the living standard of community. It is perceived that organizing capacity building training will be beneficial effects to community along with securing their income and stabilizing the family status.

5.2.4 Impact to Community Health, Safety, and Hygiene

Impacts of the project on public health are likely to arise from construction and operation. There will be a potential for diseases to be transmitted, exacerbated by inadequate health and safety practices. Company will therefore be required to recruit an environmental, health and safety personnel to address environmental, health, and safety concerns in the factory. Regular medical checkup is suggested to give to all employees working within the premise of factory. As a part of corporate social responsibility, company should consider giving voluntary medical services to the local people.

5.2.5 Impact to community life style

The industrial zone is located closed to the local village area. As a result, there will be increased social interactions between factory and local community.

The more interaction between those two parameters can improve the social cohesion. On the other hand, it might let lead to develop unnecessary crime and antisocial behavior within the community. The expected social issues include social misconduct. As a mitigation measures, company shall develop the policy relating to social code of conduct for its employees mentioning how to deal with local people and how to treat them antisocially accepted manner.

5.2.6 Impact to local business

One of the foreseeable beneficial impacts is the improvement of local business due to the existence of the factory and its activities. Local shop and restaurant shall be benefited for the project by purchasing necessary items including food stuff.

In order to strengthen this beneficial effect, company purchasing policy should be local oriented and company employees are encouraged to source the purchased items locally. Food and other personal used staff should be bought at the local shops.

5.3 Environmental Management Plan

The project categories (based on ADB or JICA guideline) evaluated as A, B or C according to the result of the impact assessment, and mitigation for both construction stage and operation stage are shown in the tables below.

(1) During Construction

Table 5.3-3 Environmental Management Plan for SJY Shoe Factory (During Construction)

Category	Item	Stage	Mitigation	Implementing Organization	Responsible Organization
Pollution	Air Quality	During Construction (DC)	- Spraying of water in construction area - Limited speed and covering of materials during transportation for construction materials - Protective equipments for workers - Regular check and maintenance of vehicles and construction equipments	Contractor	HSE Department
	Water Quality	DC	- The fuel storage and vehicle cleaning area will be stationed such that runoff from the site does not drain into the water body. - Oil interceptors will be provided at construction vehicle parking area, vehicle repair area and workshops ensuring that all wastewater flows into the interceptor prior to its discharge. - The work site will be cleaned and restored to pre-project conditions.	Contractor	HSE Department
	Solid Waste	DC	- Utilization of construction soil, - Appropriate disposal of removed materials	Contractor	HSE Department
	Noise / Vibration	DC	- Carry out loud construction activities during day time - Restriction of time to implement constriction activities	Contractor	HSE Department
Social Environment	Working Environment	DC	- Thorough education to labors and enlighten activity. - Distribution of safe equipment	Contractor	HSE Department
Others	Accident	DC	- Thorough education to labors and enlighten activity. - Distribution of safe equipment	Contractor	HSE Department

(2) Operating Stage

Table 5.3-4 Environmental Management Plan for SJY Shoe Factory (Operating Stage)

Category	Item	Stage	Mitigation	Implementing Organization	Responsible Organization
Pollution	Air Quality	Operation Stage (OS)	- Air pollution monitoring plan	HSE Manager	HSE Department
	Noise	OS	- Implementation of regular noise monitoring in and around factory	HSE Manager	HSE Department
Natural Environment	Greening Area	OS	- Plantation and gardening along the fence	HSE Manager	HSE Department
Social Environment	Existing Infrastructures and services	OS	- Planning for CSR program and establish the Fund for donation and other social activities	HSE Manager	HSE Department

5.4 Environmental Management at Denso Industry

5.4.1 Our Principles for Environmental Practice

We, DENSO INDUSTRY, acknowledge that it is our mission to pass on the healthy global environment to the next generation by eliminating the negative legacy for the earth's future. Hence, we make our best efforts to protect and improve the global environment through our business activities.

5.4.2 Environmental Policy

Under our slogan "practice the eco-friendly business," we focus on the comprehensive environmental protection in our daily business activities centered on manufacturing, assembling and distributing of electronic components (harness).

We set the following policy to promote our environmental activities, including improving in-house work environment and greening all products made by us, and to keep track of the state of achievement.

1. We stay conscious of the environmental impacts that may be caused by our business practices, products and services. We make the best possible efforts to take preventive measures for environmental contamination and to promote our environment conservation activities as well as to make continuous improvements to our environmental management system.

2. We comply with all environmental laws and regional regulations relating to our business activities as well as the industry-specific agreements. Also, by setting our own standard, we make utmost efforts, both technically and financially, to promote improvement in our business activities.

3. We conduct in-house education and training programs to raise employees' awareness about the environment conservation as well as to enrich their understanding of our environmental policy. We pursue our environmental improvement activities by articulating specific measures and policies.

4. We observe and supervise the environmental conservation activities and the environmental quality control systems of the group companies.

5. To adhere to this environmental policy, we set clear objectives and periodically review them. We promote the environmental activities on a company-wide level including our subcontractors.

The following Figure is showing environmental management structure of the company.



Figure 5.4.2-1 Institutional arrangement of Denso Industrial Asia Col., Ltd.

CHAPTER 6 ENVIRONMENTAL MONITORING PLAN

6.1 Environmental Monitoring Plan

Concerning about the items of impacts for both during construction stage and operation stage, current monitoring items, frequency, spot and responsible organization are shown below. Ministry of Environmental Conservation and Forestry (MOECAF), the responsible institution is planned to be a report destination.

Table 6.1-5 Monitoring Plan of the Proposed Project

Survey item	Item	Spot	Frequency	Responsible Organization
[During Construction]				
Common	- Monitoring of mitigation measures	-	Once/month	HSE Department
Solid waste	- Record of waste generated (Number and receiving place)	Factory Compound	Daily	HSE Department
Noise	- Complaints from residence	Factory Compound	Daily	HSE Department
Working Environment	- Prehension of condition of occupational safety and health	Factory Compound	Daily	HSE Department
Accident	- Accident record	Factory Compound	As occasionally	HSE Department
[Operation Stage]				
Common	- Monitoring of mitigation measures	-	Once/3 months	HSE Department
Air Pollution	- SO_2, NO_2, CO, TSP, PM10	Factory Compound	Once/1 year	HSE Department
Noise	- Traffic volume, Noise	Factory Compound	Once/1 year	HSE Department
Accident	- Existence of accident	Factory Compound	As occasionally	HSE Department

6.2 Implementation system for Environmental Monitoring Plan and Mitigation Measures

As for implementation system for environmental monitoring and mitigation plan, Health, safety and environment (HSE) department will be formed by project proponent and MOECAF will become responsible institution for receiving Environmental Management Plan (EMP) report. HSE manager is in charge of monitoring and preparation of its results. The Developer will submit the monitoring report at operation phase to MOECAF or Industrial Zone Management Committee. The estimated budget for environmental monitoring and CSR program is shown in Table 6.2-1.

Table 6.2-1 Estimate budget for Environmental and Social Monitoring

Item	Cost (USD) per year
1. Cost of environmental monitoring programme	26,500
2. Other CSR activities (athletics, education prizes, charities etc.)	15,400

CHAPTER 7 STAKRHOLDER MEETING

7.1 Stakeholder Meeting and Participation process

Stakeholder meeting was held in 26th April 2014. The Interviews were made between the project stakeholders, the General Administrative Officer and Heads and Elderly persons of the Industrial area. The stakeholder meeting was held in the Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township, Yangon Region. The detailed of meeting schedule, attendees and record of meeting minute are described below.

Table 7.1-1Focus Group Meetings

No.	Date	Name of town/Village	Participation	Arranged by
1	26.04.2014	Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township	Administrator, AGD, Elderly Persons of Industrial Area and REM	REM Co. Ltd.

Denso Industry Asia

IEE of Manufacturing for wire harness

Stakeholder Meeting Minutes

Date: : 26.4.2014 (Saturday)

Time: : 10:00 am – 11:30 am

Place: : Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township, Yangon Region.

Mr. Mishima (Project Manager, Denso Company) greeted that thank you for attending this meeting. Firstly he explained about company.

Our main office at Yokohama in Japan since 1958 and factory projects were extended from 1958 to 2012.

Our products are small electrical wire harness and that are used for cable in TV, DVD, Digital Camera, Computer, TV Game and Video Camera.

Our factory had got ISO 14001 and 9001 and green card from Sonny.

We conserved the natural environment. Main office in Tokyo which produce small cable for robot. He is working in Hong Kong main office.

Kan Tone office in China had 1000 employee and 600 employee worked in Shanhai office. This two office in China produced micro cables in TV Game.

We had already built and produced each two factories in China and Japan.

At last, We chose Myanmar because of our main customers are South East Asia stock and near to transport this countries. So we decided to built factory in Myanmar.

Nikkon Camera produced from Thailand and Sony from Malaysia.

Field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc. since 2010. The final decision was Myanmar, where our business can achieve rapid development. We chose Myanmar because of three facts. These are:

(1) We think that Myanmar is Buddhism Country so that Myanmar people have good morality. Since 2010, field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc…The final decision was Myanmar, our business can achieve rapid development and high quality labour Force.
(2) We hope that positive attitude of Improvement on infrastructure, logistics, investment promotion in Myanmar.
(3) We think that more improve Enthusiasm in unifying the system of tax and legislation between public and private sectors in Myanmar Country.

Five facts for investment

1. Facilities investment (electronic component processing large-scaled Machinery) We will import five machines in 2015 and also reported to MIC 28 machines will import.
2. Human Resources Investment. (Japanese technician will train to Myanmar labours)
3. As capital investment (USD 800,000, USD 2,000,000 authorized)
4. Environmental Investment, we got ISO and Systematization of environmental regulations)
5. Education Investment: we choose hard worker and to send Japan for training.

Summarize the 20 years' experienced of factory operations in China, an inexperienced person can be trained into a well-skilled person through systematic guidance.

The two existing factories in China are size of from 500 to its maximum. We hope to use 1200 employees and create a lot of job opportunities in the future.

Our schedules are Factory contract with Shwe Lin Ban Industrial Zone in January, 2014. To report the MIC application in February, 2014. In June, we will Start of facilities import and import of material in July, 2014. We will start of operation in August, 2014 and product will export in September, 2014.

Our principle of investment are maintaining the employment, to gain profit rapidly and aiming at the expansion of the enterprise scale. To achieve a stable and sustainable management through the provision of welfare policy. To support the further development of Myanmar through the continuing social and economical contribution.

And then, Daw Pwint Pwint (Resource & environment Myanmar Co., Ltd.) demonstrated about IEE by power points.

Denso Industry Asia				
ဆွေးနွေးပွဲတက်ရောက်သူများစာရင်း				
စဉ်	အမည်	ရာထူး	ဌာန	လိပ်စာ/ ဖုန်းနံပါတ်
၁	ဦးမျိုးမင်းသန့်	တာဝန်ခံ	ရွှေလင်ဗန်းရပ်ကွက်	အမှတ်(၂၃၉)ရွှေလင်ဗန်းရပ်ကွက်
၂	ဦးအောင်သန်း	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	(၅၉၇)၊ ခရေ(၂)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၃	ဦးကျင်ရွှေ	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	(၅၉၇)၊ ခရေ(၂)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၄	ဦးဝင်းထွန်း	အုပ်ချုပ်ရေးမှူး	ကစင်(၂၃)ရပ်ကွက်	မ-၁၉၄၀ ကျွန်စစ်သားလမ်း၊ကစင်(၂၃)
				၀၉-၄၂၀၁၈၆၄၆၄
၅	ဦးအောင်ကြည်	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၆	ဦးကျော်ရွှေ	ဆယ်အိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၇	ဦးဘခင်	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၈	ဦးပြည့်ဖြိုးကျော်	စီမံခန့်ခွဲရေးရုံး	ရွှေလင်ဗန်းရပ်ကွက်	ရွှေလင်ဗန်းစက်မှုဇုံကော်မတီ ၀၁-၆၁၃၅၀၁
၉	ဦးမျိုးဇော်	စီမံခန့်ခွဲရေးရုံး	ရွှေလင်ဗန်းရပ်ကွက်	ရွှေလင်ဗန်းစက်မှုဇုံကော်မတီ ၀၁-၆၁၃၅၀၁
၁၀	ဦးရဲမြင့်ဦး	ဆယ်အိမ်မှူး	ရွှေလင်ဗန်းရပ်ကွက်	၂၆/ရွှေပဒေသာ(၂)လမ်း၊ ၀၉-၄၂၀၂၀၅၆၃၉
၁၁	ဦးမင်းသူ	ရာအိမ်မှူး	ရွှေလင်ဗန်းရပ်ကွက်	၂၆/ရွှေကန်သာလမ်း၊ ၀၉-၃၁၀၈၈၃၀၂
၁၂	ဦးကျော်သိန်း	ဆယ်အိမ်မှူး	ရွှေလင်ဗန်းရပ်ကွက်	၂၆/၆၀၊ ရွှေမြင့်မိုရ်လမ်း၊၀၉-၃၁၃၀၈၂၃၃
၁၃	ဦးမင်းသိန်း	ဆယ်အိမ်မှူး	ရွှေလင်ဗန်းရပ်ကွက်	၀၉-၇၃၀၅၇၇၀၀
၁၄	ဦးမြင့်လှိုင်	အုပ်ချုပ်ရေးမှူး	ရွှေလင်ဗန်းရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၅	ဦးအောင်ဝင်း	ဆယ်အိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၆	ဦးကြည်အေး	ရာအိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၇	ဦးကျော်ဇင်ဝင်း	Director	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၁၈	ဒေါ်ပွင့်ပွင့်	Senior Consultant	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၁၉	ဒေါ်ခတ္တာစိုး	Social Team	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၂၀	ဦးဒီလှိုင်ဇော်	staff	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၂၁	Mr.Mishima	General Manager	Denso Industry Asia	Hongkong

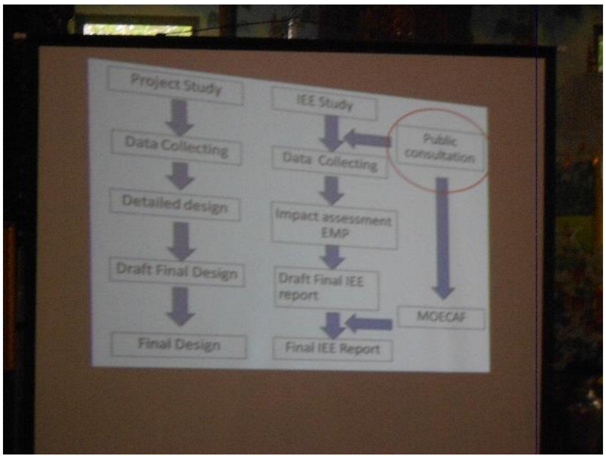
Stakeholder Meeting Photos













7.2 Environment Categorization of the Project

According to the directions by Myanmar Investment Commission Notification No. 1/2013: Stipulation of Type of Economic Activities (31 January 2013) described list of economic activities which are allowed in accordance with certain separately stipulated conditions and list of economic activities which are allowed with the Ministry of Environmental Conservation and Forestry (MOECAF)'s

recommendations. The restriction indicates "depending upon the business activity, to avoid environmental and social impacts, or to minimize the environmental and social impacts, it will be allowed only after conducting the initial study and assessment upon environmental and social impacts." Present Initial Environmental Examination assessed the potential impacts and ways to mitigate the negative impacts as well as to enhance the positive impacts.

For the sustainability policy, Asian Development Bank (ADB) uses a classification system to reflect the significance of a project's potential environmental impacts. A project's category is determined by the category of its most environmentally sensitive component, including direct, indirect, cumulative, and induced impacts in the project's area of influence. Each proposed project is scrutinized as to its type, location, scale, and sensitivity and the magnitude of its potential environmental impacts. Projects are assigned to one of the following four categories:

(i) **Category A.** A proposed project is classified as category A if it is likely to have significant adverse environmental impacts that are irreversible, diverse, or unprecedented. These impacts may affect an area larger than the sites or facilities subject to physical works. An environmental impact assessment is required.

(ii) **Category B.** A proposed project is classified as category B if its potential adverse environmental impacts are less adverse than those of category A projects. These impacts are site-specific, few if any of them are irreversible, and in most cases mitigation measures can be designed more readily than for category A projects. An initial environmental examination is required.

(iii) **Category C.** A proposed project is classified as category C if it is likely to have minimal or no adverse environmental impacts. No environmental assessment is required although environmental implications need to be reviewed.

(iv) **Category FI.** A proposed project is classified as category FI if it involves investment of ADB funds to or through a FI (paragraphs. 65-67).

According to above classification, present project is in the **Category B** which requires an initial environmental examination (IEE) that has already been conducted by the consultant team.

7.3 Conclusion and Recommendations

It is expected that the proposed electric wire harness Project has only minor negative impacts on Physical, Biological, Socio-economical and Cultural Environment. The impacts are mostly local in nature and insignificant. These impacts can be easily mitigated through adequate mitigation measures and regular monitoring during the Construction and operation Phase of the project.

The implementation of the proposed project will create a lot of beneficial and positive impacts in Physical, Biological and largely on Socio-economic environment. Significant improvement in local to

community economy is expected. This will finally enhance the living quality of people of the sub-project area.

From this IEE, it can be seen that no adverse or harmful impacts of any significance are expected and so a full scale EIA is not required. The project falls under the Category B of ADB's Guideline for which only IEE is required.

The IEE with the recommended institutional requirement and environmental monitoring plan becomes the completed EIA.

APPENDIX -1

Products

CASTING

C370A

AWG#10(5.5sq)～AWG#32(0.03sq)

量産に適した速さと、生産力の高さをコンパクトなボディで再現。
もちろん多品種ロット生産にもその威力を発揮します。



製品仕様

型 式		C370A
外形寸法		幅430mm×奥行450mm×高さ270mm
重 量		26kg
電 源		AC100V～AC240V(単相)50Hz/60Hz
消費電力(100V)		50W(定格)250W(最大)
カッティング長さ		0.1mm～99,999mm
カッティング公差		±(0.1＋0.0005×L)mm※2 Lは切断長さ
ストリップ長さ	先端	0.1～30mm
	後端	0.1～30mm
加工可能ワイヤー	種類	AVSS,VSF, IV, KV, UL,テフロン，ガラス線等
	サイズ	AWG#10(5.5sq)～AWG#32(0.03sq)※2
	外径	最大 Max φ6mm※2
ワイヤー送り速度		可変可能
刃の材質		超微粒子合金
動 力		ステッピングモータ/エアーシリンダー

※2. 但し、線材によります。

加工能力（1時間あたりの加工本数）

全 長	本 数
50mm	10,500
100mm	10,300
200mm	9,100
300mm	8,700
500mm	7,600
800mm	6,400
1000mm	5,800
1500mm	4,700
2000mm	3,900
3000mm	3,000

加工条件

両端 3mmストリップ
加工速度：9
細線モード
電線：UL1007／AWG#22

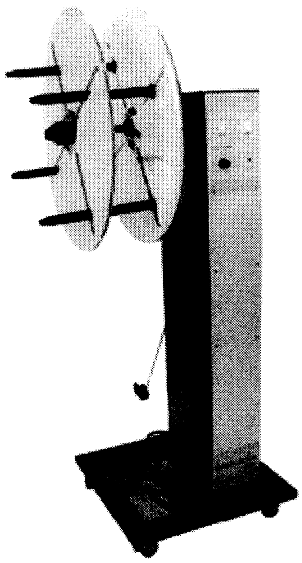
KOEI ORIGINAL

ボビンフィーダー。ボビンとテープ電線の低コスト型。

電線繰り出し機

電線繰り出し機

ボビンとテープ電線の低コスト型



電線繰り出し機
HK-007

特長

- パワフルインバーター搭載電線繰出し機。
- 海外向け220V対応も可能。
- バックテンションを最小限に抑えます。
- ヨリを取り絡ませず最後迄スムーズに取り出せます。
- オプション搭載にて平行線テープ電線の供給機としても使用可能です。
- 右→左、左→右、両サイドの3機種があり、相手の機械を選びません。

仕様

電線繰りだし機：HK-007

製品名	電線繰り出し機
型式	HK-007
電圧	100V 50/60Hz ※220Vも対応可
外形寸法	W825 × L400 × H930 mm
重量	31kg

エム･シー･エム　Cosmic 927R　お問い合わせ　価格

超精密のロータリーブレードで高品質なストリップが可能



機能設定

- ツイスト：有り／なし
- ブレード回転方向：左／右回転
- 始動方式：タッチセンサー／フットスイッチ切り替え
- カッティングタイム：無段階ダイヤル調整
- 切り込み径：デジタル表示

仕様

品　名	Cosmic 927R
適用電線	AWG36～10
ストリップ長	1～25．0mm
セミストリップ長	最小2．0mm～
ストリップ長設定単位	1mm
切り込み径設定単位	0．01mm
サイクルタイム	1．5sec／MAX
ブレード／材質	2枚刃／超硬
電源	AC100～240V，60VA
外形寸法	W131×D 400×H218mm
重量	8kg

インターネット　100%

APPENDIX -2

QC Documents

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD.

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⋈		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
1	Raw Material Flow In Inspection	QC Div		PN Qty Visual Packing	Supplier Guarar	Sampling	IQC Inspector	Visual	IQC Inspection Report (DGDS-QC-R001)	QC Div Div PIC	Wires/Cables Inspection Manual (DGDS-SB-003) Terminals Inspection Manual (DGDS-SB-004) Connector Inspection Manual (DGDS-SB-001) IQC Work Instruction (DGDS-WI-QC-003)
			Straight Ruler Vernier caliper Magnifier	PN Spec	Supplier Spec	managing checking					
			Data Bank (IQC Flow in Spection)		ICP Reading MSDS	every time					
2	Material Keeping	Material Div	Thermometer	Humidity Temperature	25±10degree 20%～85%	3times/day	Warehouse PIC	Visual	Humidity/Temp (DGDS-MC-R021)	Material Div Div PIC	Flow in Manual (DGDS-WI-MC-002) Flow out Manual (DGDS-WI-MC-003) Material storing Work Instruction (DGDS-WI-MC-005)
	Material, Part Flow Out		Measuring instrument (Electronic scale)	Qty		everytimes		Flow out Instruction Sheet			
3	Automated Singl Sided Crimping	Production Div.1	Fully Automated Crimping Machine Aplicator Height Measurer Straight Ruler	Height stripping length terminals condition	Work Instructio Sheet	3pcs before produ 1 per 5k pcs	Div Pic	Visual	Auto Machine Daily Rep (DGDS-K-06-02) Work Instruction (DGDS-PD-R034) Attendance	Production Div. 1 Div PIC	Fully Auto Crimping (TR) (DGDS-WI-PE-292)
			Height Measurer Straight Ruler	Height Span Size Length	Drawing	1pcs/lot	Insector				Crimping visual check work instructi (DGDS-SB-013) pulling test work instruction (DGDS-WI-PD-179)
			Magnifier Pulling tester	Crimping Condition Pulling test	No Abnormality	1pc before produc 1pc after producti	Div Pic Inspector	Visual	inspection work instruction (DGDS-PD-R036)		inspection work instruction (DGDS-PB-003)
4	Checking on Crimping Condition		Magnifier	Deep crimping Sharrow crimping Crimping before stripping	No Abnormality	3pcs/lot	Div Pic	Visual		Production Div. 1 Div PIC	visual check work instruction (DGDS-SB-013)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

Production Div.1	Completed by	Confirmed by	⇒	Production Div	Confirmed by	Confirmed by	⇒	QC	Approved by	⇒	Document Control Center	Registered by
	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄			電創 2012.05.31 新 庄	電創 2012.05.31 王建南			電創 2012.05.31 吴海容			電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
				terminals deform pin deform conductor defect stripping defect rusty terminals							
5	wire packing	Production Div.1		Qty	2,500pcs/box	sampling	Div Pic	Visual	machine daily report (DGDS-K-06-02) Attendance working instruction (DGDS-PD-R034)	Production Div. 1 Div PIC	Fully Auto Crimping (TR) (DGDS-WI-PE-292)
6	Middle Inspection	QC Div	Height Measurer Straight Ruler Magnifier	Height Measurement crimping condition	No Abnormality	1pc/lot	Middle Inspector	Visual	Half finished goods sampling report (DGDS-QC-R006) Daily Report Work Insturction	QC Div Div PIC	Middle Check Manual (DGDS-PB-005) Crimping Visual Check Manual (DGDS-SB-013) Middle check standard (DGDS-WI-QC-015) sampling sheet (DGDS-WI-QC-001)
			Magnifier	Deep crimping Sharrow crimping Crimping before stripping terminal deform Pin change shape conductor defect stripping defect Rusty terminals	No Abnormality	Full qty					
7	R side conductor twist for soldering	Production Div. 2	paper	stripped portion alignm	No Abnormality	Full qty	Div Pic	Visual		Production Div. 2 Div Manager	alignment work instruction (DGDS-WI-PD-031)
8	R side soldering		solder pool temperature	temperature	270～330℃	3 times/day	Inspector	Visual	soldering inspection shee (DGDS-PD-R017)	Production Div. 2 Div Manager	soldering work instruction (DGDS-PB-001)
9	R side soldering inspection		Magnifier	sodering defects conductor defects	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div Manager	soldering inspection work instructior (DGDS-WI-PD-054) inspection work instruction (DGDS-PD-R008)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

Production Div.1	Completed by	Confirmed by	⇒	Production Div	Confirmed by	Confirmed by	⇒	QC	Approved by	⇒	Document Control Center	Registered by
	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄			電創 2012.05.31 新 庄	電創 2012.05.31 王建南			電創 2012.05.31 吴海容			電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
10	R side drying		drying box	drying time temperature humidity	30～50℃ 50℃below	above 2 hrs	Div Leader	Visual	drying box temperature c (DGDS-PD-R0041-3)	Production Div. 2 Div Manager	
11	Middle Inspectior	QC Div	Height Measurer Straight Ruler Magnifier	Height Measurement crimping condition	No Abnormality	1pc/lot	Middle Inspector	Visual	Half finished goods sampling report (DGDS-QC-R006) Daily Report Work Insturction	QC Div Div PIC	Middle Check Manual (DGDS-WI-QC-005) Crimping Visual Check Manual (DGDS-SB-013)
			Magnifier	Deep crimping Sharrow crimping Stripping defects terminals deform pin deform wire defects	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025					
				soldering defects insulator defect	No Abnormality	1pc/lot					soldering work instruction (DGDS-WI-PD-037)
12	Insert black wir	Production Div. 2		incomplete inserting wires defects terminals deform	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	single side inserting work instructior (DGDS-WI-PD-284)
13	Connectivity		Magnifier	wrongly insert wires broken	No Abnormality	Full qty	Div Pic	Connectivity	inspection sheet (DGDS-PD-R008) daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	Connectivity work instruction (DGDS-PB-011)
14	Insert red wire			incomplete inserting wires defects terminals deform	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	single side inserting work instructior (DGDS-WI-PD-284)
				wire defect							

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
◇ 15	connector inspection		Magnifier	connector deform connector defects incomplete inserting Rusty terminals terminals deform	No Abnormality	Full qty	Inspector	Visual	inspection sheet (DGDS-PD-R008) daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	visual connecotr inspection work instruction (DGDS-WI-PD-021)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⋈		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 3 ／ 3

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
16	Packing	Production Div. 2	Electrical Scale	aty	No Abnormality	200pcs/bag	Div Pic	Visual	daily report (DGDS-PD-R005) work instruction	Production Div. 2 Div PIC	packign work instruction (DGDS-WI-PD-046)
17	Finished goods checking	QC Div	Magnifier	Deep/sharrow crimping terminals deform Rusty terminals incomplete inserting stripping length conductor defects wire inserted wrongly connector defects	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025	IQC Inspector	Visual	Finished goods sampling check report (DGDS-QC-R004) dailry report (DGDS-QC-R003) work instruction	QC Div Div PIC	Finished goods check work standard (DGDS-WI-QC-016) Finished goods check work instructi (DGDS-WI-QC-005) sampling sheet (DGDS-WI-QC-001) crimping visual check inspection sta (DGDS-SB-013) incompleted insert checking standar (DGDS-SB-014)
				soldering defects twisting defects	No Abnormality	1pc/lot					
			Straight Ruler	length stripping length							
18	Out flow packing	Production planning	Electrical Scale	Quantity	No Abnormality	200pcs/bag	Flow out Inspect	Visual	Packing record (DGDS-PC-R004) incoming record work instruction	Production Plann Div PIC	Packing manual (DGDS-WI -PC-001) scale checking work instruction (DGDS-PC-R022-1)
				Quantity of carton		same as Packing List					

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⋈		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
									shipping daily report scale checking record (DGDS-PC-R023)		work instruction for shortage (DGDS-PB-004)
19	Out flow check	QC Div		Part number Quantity LOT Label	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025 same as Packing List	QC flow out Inspector	Visual	Outflow check report (DGDS-QC-R019) work instruction	QC Div Div PIC	Outflow packaging check manual (DGDS-WI-QC-006) shipping check list (DGDS-WI-QC-020) finished goods inspection work instruction (DGDS-WI-QC-016)
20	Product storage (waiting for shipment)	Production Planning Div					Flow out PIC	Visual	packing record sheet (DGDS-PC-R004)	Production Planning Div PIC	

Denso Factory Asia Co. Ltd.,

Initial Environmental Examination (IEE) and Environmental Management Plan (EMP)
For
Manufacturing of wire harness on CMP basic in Shwe Lin Ban Industrial Area, Hlaingtharya Township, Yangon Region, Myanmar

May, 2014

Resource & Environment Myanmar Ltd.
B-702/401 DeltaPlazaBuilding, Shwegondaing Rd., Bahan, Yangon. MYANMAR
Tel: (959) 7301 3448; Fax: (951) 552901; www.enviromyanmar.net

Summary

Denso Industry Asia Co. Ltd., has planned to establish a manufacturing for wire harness on CMP basic in Shwe Lin Ban Industrial Zone, Hlaingtharyar Township, Yangon Region, Myanmar. The finished products would be distributed to local and international market.

This Initial Environmental Examination (IEE) report is prepared to comply with the Environmental Conservation Law (2012) enacted by Ministry of Environmental Conservation and Forestry, Government of the Republic of the Union of Myanmar.

As the manufacturing activities are proposed to be facilitated in the specified industrial area, there are no environmentally sensitive locations in and around the project site. The potential environmental and social impacts as identified for the proposed project activities as part of the IEE have revealed that the impacts are largely of generic construction related impacts.

For all the construction related impacts, environmental mitigation and management measures are integrated into the IEE report. An environmental monitoring plan to monitor the effectiveness of the mitigation /management measures is also incorporated as part of the IEE.

The construction activities and operation of the present industry does not affect the soils and air quality. However, indiscriminate dumping of solid waste can destroy the soil structure and soil fertility over time which can retard the plant growth, leading to environmental degradation.

No wildlife inhabits within the study area which is occupied by human residences, related buildings and infrastructures. A few bird species, mostly crow, sparrow and pigeon are fairly common, in addition to some snakes.

The identification and evaluation of potential environmental and social impacts arising from the proposed factory have been carefully conducted by considering the activities of proposed project versus current social and environmental conditions during construction and subsequent operational period.

Owing to the location, nature of project, the significant level of impacts are low as long as recommended mitigation measures are effectively and properly implemented and managed.

The industrial area has been established with the purpose of extending industrial infrastructure by Yangon Regional Government. Since there is no household inside the compound, relocation and resettlement processes are not involved in this project. The factory land in the industrial zone has been arranged by 50-year-lease-basis from the regional government. For that reason, there is no project affected people (PAP) and socio-economic impacts on indigenous people cause by the proposed project.

The IEE carried out for the proposed factory project shows that the proposed sub-components will result in net environmental benefits, and any adverse environmental impact can be addressed through proper location, planning, and design of the proposed subproject; control of construction activity and

mitigation measures. The Environment Management Plan (EMP) provides for mitigation of all identified impacts and the contract clauses for the environmental provisions shall be part of the civil works contracts.

The proposed project will bring a positive impact to the local people for higher chance of job opportunity. Since the investment will generate to earn foreign exchange US$ 800,000 - 2million into Myanmar and employing 1200 workers at lifelong job secured work place operating under international standards.

According to Asia Development Bank (ADB) classification, present project is included in the **Category B** which requires an initial environmental examination (IEE). The environmental consultant teams from Resource and Environment Myanmar Co. Ltd. (REM) has already conducted the Initial Environmental Examination (IEE) and no further action like Environmental Impact Assessment (EIA) is necessary. The project proponent has committed that they will be using regulation, measures and standards which are being utilized in **Sonny Inc.** (i.e., Main Company based in Japan) for environmental conservation and safety.

CHAPTER 1 INTRODUCTION

1.1 Background

The project proponent, Denso Industry Asia Co. Ltd., is establishing 100 % foreign Investment from Japan for manufacturing of electric wire harness (cables) in used for Television, DVD, Digital Camera, Computer, TV Game, Video Camera in Shwe Lin Ban industrial area in Yangon Region, Myanmar. The company is one of the subsidiaries of Sonny Inc., from Japan, which is a leading manufacture for all kind of electrical and telecommunication products and accessories having subsidiaries in other countries and market to different part of the world. The company is investing **US$ 800,000** in Myanmar which will generate to earn foreign exchange US$ 2million/ year into the country employing 1200 workers at lifelong job secured work place by operating under international standards.

Resource and Environment Myanmar (REM) has been commissioned by the project proponent to conduct Initial Environmental Examination (IEE) and Environmental Management Plan (EMP) for the proposed project in accordance with the existing Environmental Law, 2012, and the Environmental Impact Assessment regulations which is going to be enacted by the Parliament soon.

1.2 Scope of work

As of October 2013, there is no detailed legal process of the Environmental Impact Assessment (EIA) and Initial Environmental Examination (IEE) in Myanmar. However, Ministry of Environmental Conservation and Forestry (MOECAF) has been drafting the EIA Procedures which is defined detailed legal process regarding preparation of EIA and IEE report, Environmental Management Plan (EMP), public involvement, approval of EIA report by MOECAF, and stakeholder meeting, and monitoring process after approval of EIA/IEE report. IEE Type Project means a Project judged by the Ministry to have some adverse impacts, but of lesser degree and/or significance than those for EIA Type Projects.

In addition, this project is classified as B category of ADB Guidelines for Environmental and Social Considerations. ADB categorize the project as four type, A, B, C, and FI. Category A project is the project which is likely to have significant adverse impacts on the environment and society and required with study of EIA level. Category B project is the project whose potential adverse impacts on the

environment and society are less adverse than those of Category A projects and required with study of IEE level. Resource and Environment Myanmar Co. Ltd. has conducted environmental baseline survey in the project area on third week of April 2014 and recorded the existing condition of physical, ecological and social aspects of environment before the factory is commenced in operation. Based on the environmental baseline data, the anticipated potential impacts are identified and then the mitigation measures for the identified impacts are formulated. Base on the mitigation measures for each type of impact, the environmental management plan and monitoring plan are proposed in this Initial Environmental Examination (IEE) report.

1.3 Location of the proposed project site

The proposed factory is located at Plot No.240 in the industrial area of Shwe Linn Ban Area in Hlaingtharya Township in Yangon, about 1.88 km from the South West of Shwepyithar Bridge and 1.31 km to the East of Hlaing River. The current condition of infrastructures in the project site are shown in Figure 1.3-1.

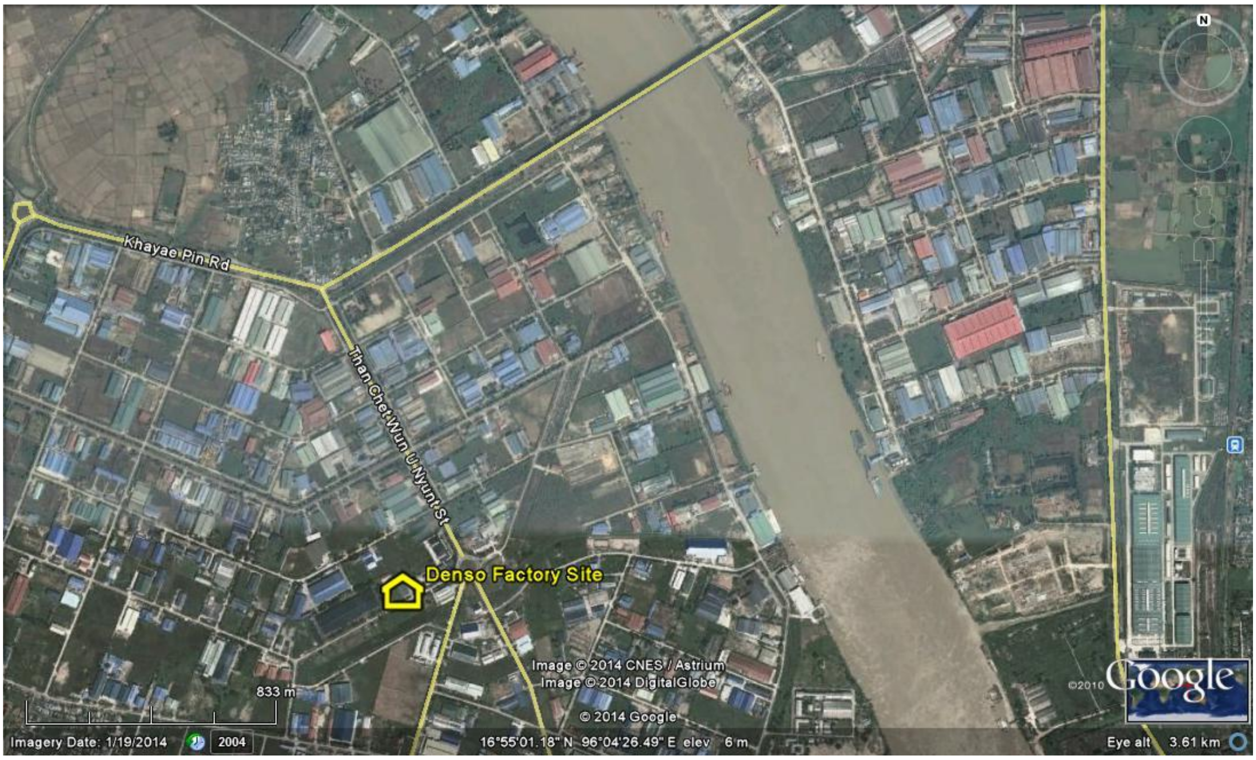


Figure 1.3-1 Location of the proposed project site in Shwe Lin Ban Industrial area, Hlaingtharya Township, Yangon Region, Myanmar



Figure 1.3-2 Location of the factory site shown in yellow boundary in the Shwe Lin Ban Industrial area of Yangon Region



Figure 1.3-3 Landscape of the factory site in Shwe Lin Ban Industrial area



Figure 1.3-4 Current condition of infrastructures observed in the project site.

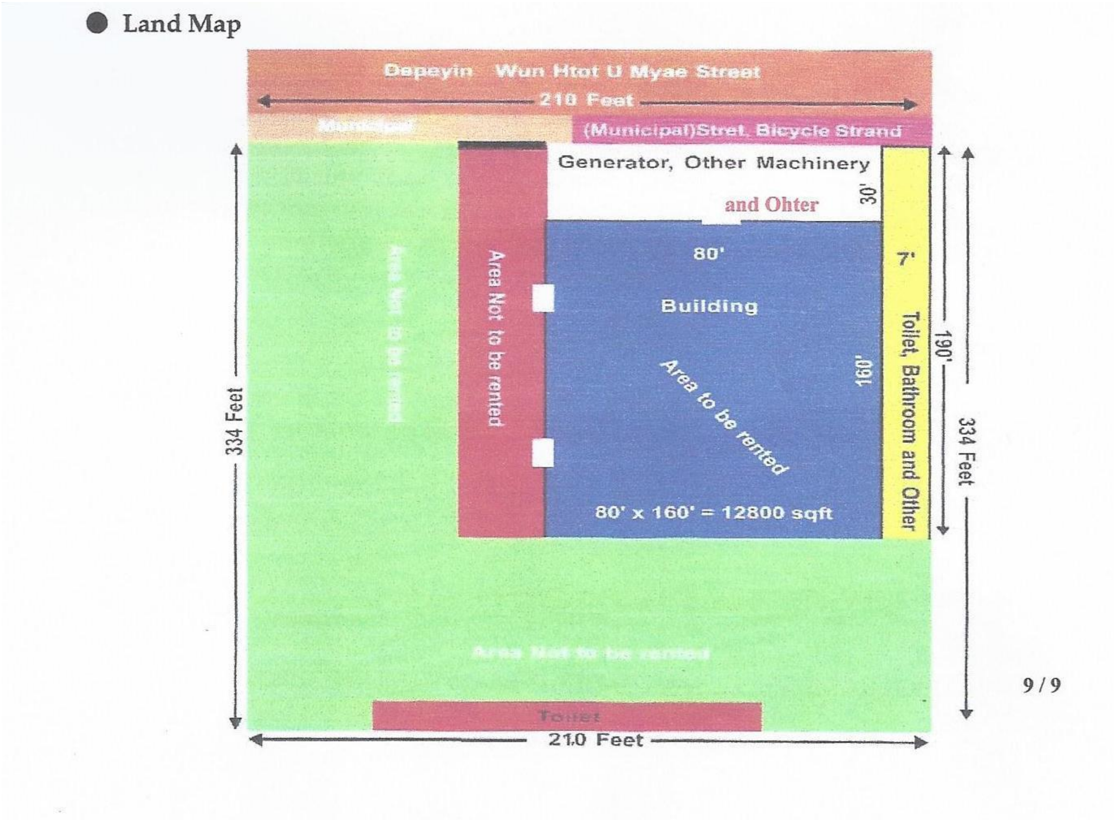


Figure 1.3-5 Floor plan of the project site

1.4 Project Description

The detailed description of the proposed project as described in the documents as provided by the project proponent are summarized in Table 1.4-1.

Table 1.4-1 Detailed description of the project

The project proponent	**Denso Industry Asia Co. Ltd.**
Type of project	Factory for manufacturing of all kinds of wire harness(cables) in used for Television, DVD, Digital Camera, Computer, TV Game, Video Camera
Type of Investment	100 % investment from Japan, a subsidiary of Sonny from Japan, investing **US$ 800000**
The representative of project proponent	• Mr. Mishima Takashi (General manager, Denso Industry Asia Co., Ltd.), Email: mishima_t@denso-k.co.jp
Project Location and size	Plot No.240, Shwe Linn Ban Industrial Zone, Hlaingtharya Township, Yangon Region, Myanmar Area: 0.3 acre
Type of land **Owner of land**	Industrial zone Yangon Region Government
Total area of buildings	48900 sq-meter
Project Facilities **Factory**	**Floor Areas** 1 x 12800 sq. meter
Number of employee	1200 persons from local (for 1st year)
Product	Appendix- 1
Environmental Consultant	**Resource and Environment Myanmar Co. Ltd.** B-702/401 DeltaPlazaBuilding, Shwegondaing Rd., Bahan, Yangon. MYANMAR, Tel: (959) 7301 3448; Fax: (951) 552901; www.enviromyanmar.net
List of Environmental Consultants in REM and the respective fields of expertise	1. U Soe Thura Tun (Principal Consultant, Environmental Management)

	2. U Zaw Naing Oo (Principal Consultant, Environmental Geology) 3. Daw Khin Ohnmar Htwe (Principal Consultant, Social Impact Assessment) 4. U Win Naing Tun (Principal Consultant, Cultural and Legal framework) 5. U Ngwe Moe (Principal Consultant, Health, Safety and Environment)

1.5 Denso Industry Asia Co. Ltd.

Trading partners of Denso Industry Group are no longer confined to Japan and China, and are extending throughout the Southeast Asia. In order to enhance Customers' Satisfaction, there is a necessity to establish another Manufacturing Base other than China.

Field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc. since 2010. The final decision was Myanmar, where our business can achieve rapid development.

- High-quality Labour Force
- Positive Attitude of Improvement on Infrastructure, Logistics, Investment Promotion and etc.
- Enthusiasm in Unifying the System of Tax and Legislation between Public and Private Sectors.

The quality control documents are listed in Appendix-2.

MYANMAR INVESTMENT DETAILS

- Facilities Investment (electronic component processing Large-Scaled Machinery)
- Human Resources Investment (Dispatch of Japanese Technician)
- Capital investment (USD800,000 , USD2,000,000 authorized)
- Environmental Investment (ISO, Systematization of environmental regulations)
- Education Investment (Training in Japan)

SCHEDULE OF EXPANSION INTO MYANMAR

- January, 2014 - Factory Contract (Shwe Lin Ban)

- February, 2014 - MIC Application

- June, 2014 - Start of Facilities Import

- July, 2014 - Start of Material Import

- August, 2014 - Start of Operation

- September, 2014 - Start of Product Export

List of labour

Unit(no. of people)

Affiliation	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year	9th year	10th year
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Labour	50	180	280	330	380	430	500	650	700	800
Manager	2	2	2	2	2	2	2	2	2	2
Interpretation	1	1	1	2	2	2	2	3	3	3
Production department head	1	1	1	1	1	1	1	1	1	1
Engineering department head	1	1	1	1	1	1	1	1	1	1
Production Control deparment head	1	1	1	1	1	1	1	1	1	1
QC deparment head	1	1	1	1	1	1	1	1	1	1
Senior staff		5	13	15	15	15	20	23	25	25
Account department	1	2	2	2	2	2	2	2	2	2
Administration	1	1	2	2	2	3	4	5	5	5
Purchase/Declaration department	1	2	3	3	3	4	4	5	5	6
Cleaning Staff	1	2	2	2	2	3	3	4	4	5
Total	**61**	**199**	**309**	**362**	**412**	**465**	**541**	**698**	**750**	**852**
Direct employees Mgr ratio	12.9%	6.5%	6.8%	6.9%	6.0%	5.4%	5.5%	5.0%	4.9%	4.3%
Indirect employees ratio	6.5%	3.5%	2.9%	2.5%	2.2%	2.6%	2.4%	2.3%	2.1%	2.1%
Worker ratio	80.6%	90.0%	90.3%	90.7%	91.8%	92.1%	92.1%	92.7%	93.0%	93.6%
Direct labor costs	9.0%	10.1%	10.8%	13.1%	13.4%	13.2%	12.1%	13.3%	13.7%	14.7%
Indirect labor costs	0.8%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.6%	0.7%
Total labor costs	**9.8%**	**10.8%**	**11.6%**	**13.8%**	**14.1%**	**13.9%**	**12.7%**	**14.0%**	**14.3%**	**15.4%**

DENSO INDUSTRY INVESTMENT PRINCIPLE

- Maintaining the employment, gaining profit rapidly and aiming at the Expansion of the Enterprise Scale.

- Achieving a Stable and Sustainable Management through the Provision of Welfare Policy.

- Supporting the Further Development of Myanmar through the Continuing Social and Economical Contribution.

1.6 Objective of Initial Environmental Impact Assessment

The primary purpose of the study is:

- To acquire the project data including social and environmental situation of the project environment
- To identify the key environmental and social issues that might be arising from the project activities during construction and operation phase
- To evaluate the potential impacts of the facility
- To recommend further mitigation and management measures which can reduce or minimize the level of concerns and give a path to the sustainable development

Chapter II LEGISLATIVE FRAMEWORK

2.1. Myanmar Legislation and Institutions concerning environment

2.1.1 Introduction

Myanmar has already had some legislations and regulations relating to natural environmental aspects since before its independence. The Forest Act and the Burma Wildlife Protection Act, for example, were enacted respectively in 1902 and 1936 for the sustainability of the forest produces. Amended versions of such earlier acts and newly promulgated ones are herein briefly outlined to give a perspective on the existing legal and administrative framework concerning the environmental affairs in Myanmar.

2.1.2. Organizations for environmental management

In Myanmar, the Ministries get involved sectorally in legislation and administration of environment-related laws and acts depending on the technical nature of respective ministry and relevant environmental aspects. The principal Ministries implementing and administering such enacted laws and regulations on behalf of the government are Ministry of Forestry, Ministry of Mines, Ministry of Culture, Ministry of Agriculture and Irrigation, Ministry of Health, Ministry of Hotel and Tourism, and Ministry of Livestock and Fisheries. They issued orders, directives and notifications as may be necessary.

On the other hand, the National Commission for Environmental Affairs (NCEA), it was formed under the Ministry of Foreign Affairs in 1990, had played a role as a central/focal coordinating body for environmental matters, particularly adopting national policies on environment until 2011. At that time, the Minister of Foreign Affairs was the only responsible one who had been involved in the international environmental conferences, for that reason who tried to organize and set up environmental governance in Myanmar.

After the elected government of 2010, the Ministry of Forestry has been reformed into **Ministry of Environmental Conservation and Forestry** (MOECAF) and an **Environmental Conservation Law (2012)** has been approved by Myanmar Government.

There are also some NGOs cooperating in the environmental activities of Myanmar. Some of these are, Red Cross, Fire Volunteer Service, Forest Resources and Environment Development Association (***FREDA***), Wildlife Conservation Society (***WCS***), California Academy of Science, International Center for Integrated Mountain Development, Botanic Gardens Conservation International, Conservation on Biodiversity, Smithsonian Institution, Wild Birds Society of Japan, and Asian Elephant Specialist Group. Also, there are academic and research organizations like Myanmar Environment Institute (***MEI***) and Economic and Environmental Research Institute (***EERI***).

2.1.3 Environmental legislation and policies

In the state constitution, "environment" means "natural environment". It states that "The state shall protect the natural environment".

It was learnt that the National Commission on Environmental Affairs (NCEA) has adopted a **National Environmental Policy in 1994** to ensure the incorporation of environmental concerns in planning for economic development. The National Environmental Policy (NEP) emphasizes "the responsibility of the State and every citizen to preserve its natural resources in the interest of present and future generations".

The commission also formulated a blue print, the **Myanmar Agenda 21, in 1997** in response to the call of the Earth Summit to develop national strategies to implement the Global Agenda 21. This document may serve as a framework for integrating environmental considerations in future national development plans as well as sectoral and regional development plans in Myanmar.

Besides the above-stated documents, there are several laws and regulations relating to the environmental matters administered by various relevant Ministries in Myanmar. These are listed in Table 2.1.3-1. Some current major legislation is also tabulated with their main purposes in Table 2.1.3-2.

Table 2.1.3-1 The existing Myanmar laws relating to environment

A. Administrative Sector
1. The Territorial Sea and Maritime Zones Law, 1977
2. The Emergency Provisions Act, 1950
3. The Essential Supplies and Services Act, 1947
4. The Police Act, 1945
5. The Poisons Act, 1919
6. The Explosive Substances Act, 1908
7. The Towns Act, 1907
8. The Village Act, 1907
9. The Yangon Police Act, 1899
10. The Explosives Act, 1887
11. The Penal Code, 1861 of Offences Affecting the Public Health, Safety, Convenience, Decency and Morals.
B. Agriculture and Irrigation Sector
12. The Plant Pest Quarantine Law, 1993
13. The Pesticide Law, 1990
14. The Embankment Act, 1909
C. Culture Sector
15. The Protection and Preservation of Cultural Heritage Region Law, 1998
D. City Development Sector
16. The Development Committees Law, 1993
17. The Mandalay City Development Law, 1992

18. The City of Yangon Development Law, 1990 (Amended in 1995 and again in 1996)

19. The Underground Water Act, 1930

20. The Water Power Act, 1927

21. The City of Yangon Municipal Act, 1922 (The Law Amending the City of Yangon Municipal Act, 1991)

22. The Yangon Water-works Act, 1885

E. Finance & Revenue Sector

23. The Myanmar Insurance Law, 1993

F. Forestry Sector

24. The Protection of Wild Life and Wild Plants and Conservation of Natural Areas Law, 1994

25. The Forest Law, 1992

G. Health Sector

26. The National Food Law, 1997

27. The Traditional Drug Law, 1996

28. The Prevention and Control of Communicable Diseases Law, 1995

29. The National Drug Law, 1992

30. The Union of Myanmar Public Health Law, 1972

H. Hotels and Tourism Sector

31. The Myanmar Hotel and Tourism Law, 1993

I. Industrial Sector

32. The Private Industrial Enterprise Law, 1990

33. The Factories Act, 1951

34. The Oilfield (Workers and Welfare) Act, 1951

35. The Petroleum Act, 1934

36. The Oilfields Act, 1918

J. Livestock and Fisheries Sector

37. The Animal Health and Development Law, 1993

38. The Freshwater Fisheries Law, 1992

39. The Myanma Marine Fisheries Law, 1990 (The Law Amending the Myanma Marine Fisheries Law, 1993)

40. The Law Relating to Aquaculture, 1989

41. The Law Relating to the Fishing Rights of Foreign Fishing Vessels, 1989 (The Law Amending the Law Relating to the Fishing Rights of Foreign Fishing Vessels, 1993)

K. Mining Sector

42. The Myanmar Gemstone Law, 1995

43. The Myanmar Pearl Law, 1995

44. The Myanmar Mines Law, 1994

45. The Salt Enterprise Law, 1992

46. The Land Acquisition (Mines) Act. 1885

L. Science and Technology Sector

47. The Science and Technology Development Law, 1994

M. Transportation Sector

48. The Highways Law, 2000

49. The Motor Vehicles Law, 1964 (The Law Amending the Motor Vehicles Law of 1964 enacted in 1989)

50. The Myanmar Aircraft Act, 1934

51. The Inland Steam Vessels Act, 1917
52. The Ports Act, 1908
53. The Defile Traffic Act, 1907
54. The Yangon Port Act, 1905
55. The Canal Act, 1905
56. The Obstruction in Fairways Act, 1881

Table 2.1.3-2 Current principal legislations of Myanmar

Law and regulation	Year	Purpose
Factory Act	1951	To make effective arrangements in every factory for disposal of waste and effluence, and for matters of health, cleanliness and safety.
Public Health Law	1972	To promote and safeguard public health and to take necessary measures in respect of environmental health.
Territorial Sea and Maritime Zone Law	1977	To define and determine the Maritime Zone, Contiguous Zone, Exclusive Economic Zone and Continental Shelf and the right of the Union of Myanmar to exercise general and exclusive jurisdiction over these zones and the Continental Shelf in respect of preservation and protection of the marine environment, its resources and prevention of marine pollution.
Fishing Rights of Foreign Vessels Law	1989	To conserve fisheries and to enable systematic operation in fisheries with participation of foreign investors.
Marine Fisheries Law	1990	To conserve marine fisheries and to enable systematic operation in marine fisheries.
Forestry Law	1992	To implement forest policy and environmental conservation policy, to promote the sector of public cooperation in implementing these policies, to develop the economy of the State, to prevent destruction of forest and biodiversity, to carry out simultaneously conservation of natural forests and establishment of forest plantations and to contribute to the fuel requirements of the country.

National Environmental Policy	1994	To establish sound environment policies in the utilization of water, land, forest, mineral resources and other natural resources in order to conserve the environment and prevent its degradation.
Protection of Wildlife and Wild Plants and Conservation of Natural Areas Law	1994	To protect wildlife, wild plants and conserve natural areas, to contribute towards works of natural scientific research, and to establish zoological gardens and botanical gardens
Myanmar Mines Law	1996	To implement mineral resources policy.
Fertilizer Law	2002	To boost development of the agricultural sector, control fertilizer businesses, and to facilitate conservation of soil and the environment.

Sources: Data compilation by Resource and Environment Myanmar Co. Ltd. 2012 based on the references; 1) United Nations Development Programme, 'The World of Information: Asia and Pacific Review', *The Economic and Business Report,* 1997 Sixteenth Edition; 2) United Nations Development Programme, 1998; 3) *Human Development Report*, United Nations Development Programme, New York.

2.2. International treaties and agreements ratified and/or signed by the Government

Myanmar has also made commitments to the following international agreements on environmental issues as shown in the Table 2.2-1.

Table 2.2-1 Myanmar's Commitment to International Agreements on Environmental Issues

(Ref: National Commission of Environmental Affairs (NCEA) during 1959 and 2004)

No.	International Environmental Conventions/ Protocols/ Agreements	Date of Signature	Date of Ratification	Date of Member	Cabinet Approval Date/No.
1	Plant Protection Agreement for the South-East Asia and the Pacific Region, Rome, 1956		4-11-1959 (Adherence)	4-11-1959	
2	Treaty Banning Nuclear Weapons Test in the Atmosphere in Outer Space and Under Water, Moscow, 1963	14/8/1963	15-11-1963 (Ratification)		
3	Treaty on the Prohibition of the Emplacement of Nuclear Weapons and other Weapons of Mass Destruction on the Sea-Bed and Ocean Floor and in the Subsoil there of, London, Moscow, Washington, 1971	11/2/1971			
4	Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons, and on their Destruction, London, Moscow, Washington, 1972	10/4/1972			
5	International Convention for the Prevention of Pollution from Ships, London, 1973	(Accession)	undertakes to give effect to this Convention under para 1 & 2 of Article 1 of the Protocol of 1978		
6	Protocol of 1978 Relating to the International Convention for the Prevention of Pollution from Ships, London, 1973		4-8-1988 (Accession)	Except for Annexes III,IV and V of the Convention	
7	United Nations Convention on the Law of the Sea, Montego Bay, 1982	10/12/1982	21-5-1996 (Ratification)		
8	United Nations Framework Convention on Climate Change, New York, 1992 (UNFCCC)	11/6/1992	25-11-1994 (Ratification)		41/94 9-11-94

9	Convention on Biological Diversity, Rio de Janeiro, 1992	11/6/1992	25-11-1994 (Ratification)		41/94 9-11-94
10	Treaty on the Non-Proliferation of Nuclear Weapons, London, Moscow, Washington, 1968		2-12-1992 (Accession)		
11	Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and their Destruction, Paris, 1993	14-1-1993			
12	International Tropical Timber Agreement (ITTA), Geneva, 1994	6-7-1995	31-1-1996 (Ratification)		
13	Vienna Convention for the Protection of the Ozone Layer, Vienna, 1985		24-11-1993 (Ratification)	22-2-1994	46/93
14	Montreal Protocol on Substances that Deplete the Ozone Layer, Montreal, 1987		24-11-1993 (Ratification)	22-2-1994	46/93
15	London Amendment to the Montreal Protocol on Substances that Deplete the Ozone Layer, London, 1990		24-11-1993 (Ratification)	22-2-1994	46/93
16	The Convention for the Protection of the World Culture and Natural Heritage, Paris, 1972		29-4-1994 (Acceptance)		6/94 9-2-94
17	ICAO ANNEX 16 Annex to the Convention on International Civil Aviation Environmental Protection Vol. 1 Aircraft Noise	(Accession)			
18	ICAO ANNEX 16 Annex to the Convention on International Civil Aviation Environmental Protection Vol. II Aircraft Engine Emission	(Accession)			
19	Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space Including the Moon and Other Celestial Bodies (Outer Space Treaty), London, Moscow, Washington, 1967	22-5-1967	18-3-1970 (Ratification)		
20	Agreement on the Networks of Aquaculture Centres in Asia and the Pacific, Bangkok, 1988		22-5-1990 (Accession)		
21	South East Asia Nuclear Weapon Free Zone Treaty, Bangkok, 1995	15-12-1995	16-7-1996 (Ratification)		
22	United Nations Convention to Combat Desertification in Those Countries Experiencing Serious Drought and / or Desertification, Particularly in Africa, Paris, 1994 (UNCCD)		2-1-1997 (Accession)	2-4-1997	40/96 4-12-96
23	Convention on International Trade in Endangered Species of Wild Fauna and Flora, Washington, D.C.,		13-6-1997 (Accession)	11-9-1997	17/97 30-4-97

	1973; and this convention as amended in Bonn, Germany,1979 (CITES)				
24	Agreement Relating to the Implementation of Part XI of the United Nations Convention on the Law of the Sea of 10 December 1982, New York, 1994		21-5-1996 (Accession)		
25	Agreement to Promote Compliance with International Conservation and Management Measures by Fishing Vessels on the High Seas, Rome, 1973		8-9-1994 (Acceptance)		
26	ASEAN Agreement on the Conservation of Nature and Nature Resources, Kuala Lumpur, 1985	16/10/1997			
27	Catagena Protocol on Biosafety, Cartagena, 2000	11/5/2001			13/2001 22-3-01
28	ASEAN Agreement on Transboundary Haze Pollution	10/6/2002	13-3-2003 (Ratification)		7/2003 27-2-03
29	International Treaty on Plant Genetic Resources for Food and Agriculture, 2001		4-12-2004 (Ratification)	29-6-2004	
30	Kyoto Protocol to the Convention on Climate Change, Kyoto, 1997		13-8-2003 (Accession)		26/2003 16-7-03
31	Stockholm Convention on Persistent Organic Pollutants (POPs), 2001		18-4-2004 (Accession)	18-7-2004	14/2004 1-4-04

2.3 Current status of Environmental Conservation Law in Myanmar

Because of the very recent establishment of Environmental Conservation Law signed by the President on 30th March 2012, detail duty, coordination framework and mechanism have not been thoroughly settled yet. The ministry (MOECAF) recommends the environmental service companies to follow the world known environmental standards e.g. the Asia Development Bank (ADB) and International Finance Corporation (IFC) (Resource & Environment Myanmar, per. Com. 2012).

2.3.1 A brief outline of Environmental Conservation Law, 2012

The law consists of 14 chapters and 42 articles. The objectives of the law are:

(a) To implement the Myanmar National Environmental Policy;

(b) To lay down the basic principles and give guidance for systematic integration of the matters of environmental conservation in the sustainable development process;

(c) To emerge a healthy and clean environment and to conserve natural and cultural heritage;

(d) To reclaim ecosystems as may be possible which are starting to degenerate and disappear;

(e) To manage and implement for decrease and loss of natural resources and for enabling the sustainable use beneficially;

(f) To implement for promoting public awareness and cooperation in educational programmes

(g) To promote international, regional and bilateral cooperation

(h) To cooperate with Government departments, organizations, international organizations, non-government organizations and individuals

Chapter (III) Formation of the Environmental Conservation Committee

Article 4. (a): The Union Government shall form the Environmental Conservation Committee (ECC) with the Union Minister for the Union Ministry assigned by the Union Government as the Chairman and with suitable members to conserve the environment of the Republic of the Union of Myanmar;

Article 5: The Union Government shall stipulate functions and duties of the Committee to implement the objectives contained in this Law.

Article 6: The powers of ECC

(a) Carrying out educational activities;

(b) Suggesting to amend and insert, as may be necessary, the lessons on environmental conservation contained in school lessons;

(c) Accepting donations, grants, materials and technological aids, materials and technologies;

(d) Sending suitable suggestions and encouragements relating to environmental conservation;

(e) Asking necessary proposals and suggestions for conservation and enhancement of environment;

(f) Prohibiting the relevant Government departments and organizations if the environmental damages arise or situations for damage arise;

(g) Laying down and carrying out the Myanmar national environmental policies and other environmental policies for conservation and enhancement of environment

Chapter (IV) Duties and Powers relating to Environmental Conservation of the Ministry

Article 7: The duties and Powers relating to Environmental Conservation of the Ministry are as follows:

(a) Implementing environmental conservation policies;

(b) Planning and laying down national or regional environmental management work plans;

(c) Laying down, carrying out and monitoring programmes for enhancement of the environment, and control of environmental pollution;

(d) Prescribing environmental quality standards

(e) Submission of proposals to the Committee for economic incentive mechanisms

(f) Specifying categories of hazardous wastes generated from the production and use of chemicals in industry, agriculture, mineral production, sanitation

(g) Promoting the establishment of necessary factories for the treatment of solid wastes, effluents and emissions which contain toxic and hazardous substances;

(h) Prescribing the terms and conditions relating to effluent treatment in industrial estates and other and emissions of machines, vehicles and mechanisms;

(i) Laying down and carrying out a system of environmental impact assessment and social impact assessment as to whether or not a project to be undertaken causing a significant impact on the environment;

(j) Cooperating with International, regional, bilateral agreements, instruments and programmes;

(k) Laying down guidance relating to Ozone layer protection, conservation of Bio Diversity, of coastal, mitigation and adaptation of global warming and climate change, combating desertification and management of other environmental matters;

(l) Managing to cause the polluter to compensate for environmental impact, cause to contribute benefit from the natural environmental services, cause to contribute a part of the benefit from using the natural resources;

Article 8. Environmental Management Fund

To establish an Environmental Management Fund in the Union Budget for effective implementation of environmental conservation works in addition to the Union Consolidated Fund.

Chapter (V) Environmental Emergency

Article 9. Committee shall immediately report to the Union Government to declare the occurrence of environmental emergency; carrying out necessary measures

Chapter (VI) Environmental Quality Standards

Article 10. The Ministry may stipulate the following environmental quality standards:

(a) suitable surface water quality standards in the usage in rivers, streams, canals, springs, marshes, swamps, lakes, reservoirs and other inland water sources of the public;

(b) Water quality standards for coastal and estuarine areas;

(c) Underground water quality standards;

(d) Atmospheric quality standards;

(e) Noise and vibration standards;

(f) Emissions standards;

(g) Effluent standards;

(h) Solid wastes standards;

(i) Other environmental quality standards

Chapter (VII) Environmental Conservation

Article 13. The Ministry shall, under the guidance of the Committee, maintain a comprehensive monitoring system and implement by itself or in co-ordination with relevant Government departments and organizations in the following matters.

(a) The use of agro-chemicals which cause to impact on the environment significantly;

(b) Transport, storage, use, treatment and disposal of pollutants and hazardous substances in industries;

(c) Disposal of wastes come out from exploration, production and treatment of minerals, industrial mineral raw materials and gems;

(d) Carrying out waste disposal and sanitation works;

(e) Carrying out development and constructions;

(f) Carrying out other necessary matters

Compliance with Environmental Quality Standards

Article 14. To treat and deposit the substances with cause pollution in accord with environmental standards;

Article 15. To install facility and equipment to reduce or eliminate environmental pollution;

Article 16. To comply with the directives in the industrial estate or business in the industrial and special economic zone;

Chapter (VIII) Management of Urban Environment

Article 17. The Ministry shall, for the management of urban environment, advice as may be necessary to the relevant Government departments and Government organizations, private organizations and individuals in carrying out the following matters:

(a) Land use planning and management including zoning;

(b) Management of the construction industry in pivotal urban centres;

(c) Management of housing settlements;

(d) Management of wastes;

(e) Pollution control including land, water, air and noise pollution;

(f) Other necessary environmental management.

2.3.2 Guidelines and Standards related to Environment

To date, there has been an approved guideline related to environment, i.e. the FDI Rules Notification by Myanmar Investment Commission (31 January 2013). In its section 3, a list of business that require environmental impact assessment or related studies. 34 types of investment are listed in it.

The Ministry of Environmental Conservation and Forestry has been preparing a guideline or rules and regulations concerning environment since 2012, but it has not yet been unacted yet. However, the ministry (MOECAF) recommended the investors and environmental firms to apply Environmental Guidelines of Asian Development Bank (ADB) and that of International Finance Corporation (IFC) before Myanmar's guidelines have been legalized.

2.3.3 The draft Environmental Impact Assessment rules

The EIA rules are being notified by the Ministry of Environmental Conservation and Forestry during August, 2013 in exercise of the powers conferred by Section 42 Subsection (a) of the Environmental Conservation Law and with the approval of the Union Government. These rules are now brought to the Parliament to be approved within 90 days. Until now, the Ministry has verbally informed the following information to the environmental experts.

- The projects which are required to conduct IEE or EIA
- To Develop Environmental Management Plan

- EIA has to be conducted by independent Party who is registered in MOECAF
- EIA Review Committee
- EIA approval by the Ministry with the guidance of ECC

2.4. Current Organization and Management

Although Myanmar has a number of environmental related laws and regulations, it lacks the appropriate institutional framework to carry out 'protection and conservation of the environment' so as to achieve sustainable development by implementing these laws. However, the Ministry of Environmental Conservation and Forestry (MOECAF) did its best in addressing environmental issues through engagement, coordination and cooperation both at sectoral and national levels. **Myanmar Investment Commission (MIC) asked all the development projects passing through to conduct proper EIA from middle half of 2012**.

In exercise of the powers conferred under **paragraph 56 (b) of the Foreign Investment Law**, with the approval of the Government, Myanmar Investment Commission (MIC) announced the Economic Activities into following categories in Notification No. 1/2013 on 31st January, 2013.

1. List of Prohibited Economic Activities,
2. List of Economic Activities allowed in the form of Joint Venture with Myanmar citizens
3. List of Economic Activities which shall be allowed under the specific circumstances shown in the followings.
    - List of Economic Activities Permitted with the recommendations of the Relevant Ministry
    - List of Economic Activities Permitted with Other Conditions
    - List of Economic activities which required Environmental Impact Assessment (Ministry of Environmental Conservation and Forestry)

According to Environmental Conservation Law, 2012, the Union Government shall form **Environmental Conservation Committee (ECC)** which is the national level policy maker and

Ministry of Environmental Conservation and Forestry (MOECAF) act as national coordinating body. In fact, MOECAF was established to advise the Government on environmental policies, to act as a focal point and as a coordinating body for environmental affairs; and to promote environmentally sound and sustainable development in Myanmar.

2.4.1 Ministry of Environmental Conservation and Forestry (MOECAF)

Since country had initiated to start moving onto the path of democracy, new civil government was elected in 2010. After the selected government, Ministry of Forestry was reformed as Ministry of Environmental Conservation and Forestry (MOECAF) in 2011 as a national level agency to coordinate and handle environmental related issues and matters including the implementation of international environmental agreements signed by government, law enforcements and information dissemination. Since then NCEA was cancelled and MOECAF has been acting as focal coordinating body for country's overall environmental management and environmental matters. There are five departments under the MOEFAF, namely,

1. Planning and Statistics Department
2. Forest Department
3. Dry zone Greening Department
4. Environmental Conservation Department (ECD)
5. Survey Department
6. Myanma Timber Enterprise

Environmental Conservation Department (ECD) was created in October 11, 2012 to take responsibility for the effective implementation of environmental conservation and management in Myanmar. The objectives of forming ECD are shown below.

- To implement the national environment policy
- To develop short, medium and long term strategy, policy and planning for the integration of environmental consideration into the sustainable development process
- To manage natural resources conservation and sustainable utilization
- To manage the pollution control on water, air and land for environmental sustainability
- To cooperate with government organization, civil societies, private and international organizations for the environmental affairs.

Currently, Environmental Conservation Department has been hosting various environmental and sustainable related workshops and meetings in an effort to fulfill the country's most demanding human resource, knowledge and technical expertise in environmental sector by technical transferring and knowledge sharing from international consultants.

On the other hand, in collaboration with international finical institutions and United Nations organizations, MOECAF has also been carrying out the activities of preparing environmental regulations such as EIA rules, environmental quality standards and other environmental related issues. MOECAF has planned to organize sub divisions under ECD and extend the manpower in near future with the aim of effectively implement and manage the environmental regulations and resources in country wide. This newly organized environmental divisions include the followings.

- Administration
- Planning & Internal relation
- Pollution control
- Natural resource and EIA
- State and Region departments.

As the job allocation and staffing within the department are in progress detailed functions and responsibilities given to individual department remain still unknown in the time of the report.

2.4.2 Sectoral Framework / Mechanism

Different ministries involved in dealing with environmental issues also have their own policies, capacities, processes, legislations, and budgets for the environmental issues they have. For example, the Ministry of Environmental Conservation and Forestry has its own budget for the reforestation component of the Land Degradation Programme. However, given close cooperation between the different Ministries, information regarding budgets as on other matter is shared between one another. Capacity and institution building in the short and medium term is being carried out by each ministry separately on their own budgets. Governmental organizations and their prime environmental issues are summarized in Table 2.4.2-1.

Table 2.4.2-1 Governmental organizations and relevant environmental issues

(Source: Data compilation by Resource and Environment Myanmar Co. Ltd. 2012)

Environmental Issues / Governmental Organizations	Air Pollution	Water Pollution	Banned Pesticides	Environment in Factory	Toxic chemicals	Solid Waste	Energy	Water Supply	Waste Water Treat	Forest and Desert	Biodiversity	Natural Resources	Natural Disaster	Environmental Education
Ministry of Environmental Conservation and Forestry	o	o	o	o	o	o	o	o	o	o	o	o	na	o
Ministry of Agriculture and Irrigation	-	o	o	-	o	o	-	o	-	o	-	o	-	o
Ministry of Livestock and Fisheries	-	-	-	-	-	-	-	-	-	-	-	o	-	-
Ministry of Industry	-	o	na	-	o	o	-	na	o	-	-	-	-	-
Ministry of Health	na	o	na	na	o	o	-	o	-	-	-	-	-	o
Ministry of Energy	-	-	-	-	-	-	o	-	-	-	-	na	-	-
Ministry of Electric Power	-	-	-	-	-	-	-	na	-	-	-	na	-	-
Ministry of Transport	-	-	-	-	-	-	-	o	-	-	-	na	-	-
Ministry of Home Affairs	-	na	-	-	-	-	-	-	-	-	-	-	o	-
Ministry of Labour	o	o	-	o	-	-	-	-	o	-	-	-	-	-
Ministry of Mine	o	na	-	-	na	na	-	-	-	-	-	o	-	-
Ministry of Science and Technology	na	na	na	-	o	o	o	-	-	-	-	-	-	o
Ministry of Education	-	-	-	-	-	-	-	-	-	-	-	-	-	o
Ministry of National Planning and Economic Development	-	o	-	-	-	-	-	-	-	-	-	-	-	-
Ministry of Progress of Border Areas, National Races and Development Affairs	-	-	-	-	-	-	-	o	-	o	-	-	na	-
Myanmar Investment Commission	-	o	-	-	-	-	-	-	-	-	-	o	-	-
National commission for Water and Sanitation	-	na	-	-	-	-	-	o	-	-	-	-	-	-
Industrial Development Central Committee	o	o	-	-	-	-	-	-	-	-	-	-	-	-
Disaster Prevention Central Committee	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yangon City Development Committee	o	o	-	-	o	o	-	-	o	-	-	-	-	-
Mandalay City Development Committee	o	o	-	-	o	o	-	-	o	-	-	-	-	-

Note: 1) : o → Relevant Organization - → No responsible na → Lack of information

2.5 Existing laws and regulations relevant to the proposed project

The following laws and regulations are generally relevant to the proposed factory project.

1. The Penal Code, 1861 of Offences Affecting the Public Health, Safety, Convenience, Decency and Morals
2. The Factories Act, 1951
3. The Union of Myanmar Public Health Law, 1972
4. Electricity Law, 1984
5. Private Industrial Enterprise Law (Law No. 22/90, 1990)
6. The Prevention and Control of Communicable Diseases Law, 1995
7. Fire Service Law, 1997
8. The Labour Laws of Myanmar
9. Environmental Conservation Law, 2012
10. Foreign Investment Law, 2012
11. Foreign Investment Rules, 2013
12. Prevention from Danger of Chemical and Associated Materials Law, 2013

2.5.1 Urban Water Utilization

Most of the laws shown below are relating for urban water utilization and for ground water use, the laws are still under processing, but some are prepared to draw new concepts.

(1) The Burma Municipal Act (1898)

(2) The Burma Canal Act 1905, as amended by Burma Act of 1914, of 1924 of 1928 and of 1934

(3) The Underground Water Act (1930) , Burma Act IV1930) 21 June 1930

(4) The Burma Water Power Rules (1932)(8) The Rangoon Municipal Act (1941)

Section 114 : Water Supply

Section 116 : Power of Access to Municipal Water Works

Section 117 : Prohibition of Erection of any Building which Injure Sources of Water Supply

Section 118 : Prohibition of Bathing in or polluting water

Section 119 : Occupiers of Premises to be primarily liable for Certain Offences Against the Act

2.5.2 Law of Govern Pollution

Myanmar has no specific laws to govern water pollution.

- Public Health Law (1972) (environmental health such as garbage disposal, use of water for drinking and other purpose, radioactivity, protection of air from pollution and food and drug safety)
- Burma Ports Act (1908) (harbours pollution, this merely focuses on the detriment to navigation)
- Myanmar Investment Commission guideline (1994) River and lake pollution from sewage, industrial waste and solid waste disposal are serious problems in Myanmar, but are not regulated explicitly by any laws. So, new laws relating to pollution should be enacted.

2.5.3 Existing legal framework related to labours and occupational safety in Myanmar

The existing legal framework most related to labours and occupational safety in Myanmar are the following **Labour Laws**.

- Employment Restriction Act. 1959
- Employment Statistics Act. 1948
- Employment and Training Act. 1950
- Factories Act. 1951
- Minimum Wages Act, 1949
- Payment of Wages Act. 1936
- Shops and Establishments Act, 1951
- Social Security Act. 1954
- The Leave and Holidays Act. 1951
- Trade Disputes Act, 1929
- Employment and Skill Development Law, 2013

In addition, Myanmar has also ratified numerous International Labour Organization Conventions. "According to section 24 of Myanmar's constitution, the government must provide the means to protect labours.

2.5.3.1 The Factories Act 1951

The Factories Act 1951, is the principle Labour Law dealing with Safety, Health, Welfare and working hours of industrial workers in Myanmar. It is the act relating to occupational safety for the workers. It provides requirements concerning with working hours, working days, overtime, and certain health and safety measures. The provisions relating to health and safety aim at ensuring a healthy and safe workspace for workers. It includes provisions for ensuring cleanliness, adequate workspace, adequate lighting and ventilation, adequate supply of whole-some drinking water, adequate sanitary facilities, proper disposal of waste and effluence, absence of injurious dust and fumes at the workplace, fencing and guarding of dangerous machinery and places, precaution to be taken with regard to work in confined spaces, safety of lifting machinery, prevention of explosion and fires etc.

The stipulations relating to welfare include provision of suitable cleaning and washing facilities for workers, place for taking meals and rest, first-aid facilities, place for care of infants of working mothers, among other things. The provisions regarding hours of work and days of rest, include limiting hours of work to 8 hours a day and 44 hours a week, granting a weekly holiday and rate of payment for overtime work.

The Factories Act also has stipulations relating to children and young persons. A child under the age of 13 years in prohibited to work in any factory. A child who is between the age of 13 and 15 may work for a maximum of 4 hours a day subject to certain conditions.

The following is a summary list of the Factories Act, 1951 but not in details.

Working Hours: Normal working hour is 8 hours a day and 44 hours/ 40 hours/ 48 hours a week. A worker is entitled to minimum thirty minute rest period after working continuously for five hours.

Working Days: Working days may be up to six days a week (Remark: For government services, 5 days a week)

Overtime: Overtime is permissible. Its pay is twice the normal pay rate. And other rights can also get.

Safety and Health: The employer has an obligation to protect workers from occupational hazards relating to the physical facilities, harmful substances, and environment factors at the workplace. The employer has other obligations, depending on the number of workers employed.

The workers can also get other rights in accordance with Leave and Holidays Act, 1951, Social Security Act, 1954 and the Worker's Compensation Act, 1923.

For example,

- How many leaves with salary can get for a male or female worker?
- How many holidays can get for a worker?
- How much compensations can get for a worker?

In this factory worker field, Oilfield workers and Mine workers are also involved. There are also other rights for them and it may be a little different with other field of factory workers.

2.5.3.2 First law on safety and health in workplaces

The first law on safety and health in workplaces is being drafted by the Ministry of Labour, Employment and Social Security and will be promulgated in 2013. “The law will aim to prevent air and water pollution and improve safety at worksites, including fire prevention, ensuring construction workers use protective equipment, ensuring the safety of worksite operators and taking precautions for natural disasters (Source: Myanmar to draft first Myanmar Safety Law, MYANMAR TIMES Journal, 21 Dec 2012, as spoken by U Si Thu Aung, head of the Ministry’s Factories and General Labour Law Inspection Department, during a seminar on occupational health and safety at the Union of Myanmar Federation of Chambers of Commerce and Industry in Yangon on Saturday, December 15).

2.5.3.3 General information on PPE in construction sites

Workers must start obeying regulations and wearing protective equipment to improve safety standards and reduce accidents. “New construction sites need a drain for waste, a good sanitation system, fire alarms and a safety net for construction workers. These precautions need to be widely understood by

workers entering the industry. At the construction site, the system for water and power often causes electrical fires. (***Source***: *Myanmar to draft first Myanmar Safety Law*, MYANMAR TIMES Journal, 21 Dec 2012, a speaker note from a seminar on occupational health and safety at the Union of Myanmar Federation of Chambers of Commerce and Industry in Yangon on December 15, 2012).

*1. **2.5.4 Concerning government organizations in Myanmar for employee***

Ministry of Labour, Employment and Social Security

Labour administration is the responsibility of the Ministry of Labour, Employment and Social Security. Departments under the Ministry include: (1) Department of Labour, (2) Social Security Board, (3) Central Inland Freight Handling committee, (4) Factories and General Labour Laws Inspection Department, and (5) Department of Labour Relations.

Department of Labour: Amongst others, the major functions performed by this department include conducting negotiations and conciliations in cases of dispute between employers and employees; providing employment services through its 78 township offices; providing overseas employment services; researching and reviewing labour laws; and maintaining manpower statistics.

Social Security Board: The Social Security Board administers the Social Security Scheme established pursuant to the Social Security Act.

Factories and General Labour Laws Inspection Department: This department researches, monitors, and enforce safety and health standards in factories. Its inspectors are authorized to fine employers who breach minimum safety and health standards, and who commit other transgressions such is not complying with trade disputes awards, or not remitting social security contributions. Apart from enforcement, the department also disseminates industrial safely information and provides consultancy services.

Occupational Health Division (OHD)

OHD is under the Department of Health in the Ministry of Health. Occupational health Division takes the responsibility for health promotion in work places, environmental monitoring of work places and

biological monitoring of exposed workers. The division is also providing health education on occupational hazards. Occupational Health Division has also investigated the industrial accidents in various states and regions to prevent the occurrence of similar episodes.

The Ministry of Health has been collaborating with Ministry of Labour for the formation of National Occupational Safety and Health Committee. The Ministry of Health played a major role in drafting "Chemical Safety Law" with the Ministry of Industry and other related ministries.

2. *2.6 Quantitative Target Levels for Consideration of Surrounding Environment*

According to the Environmental Conservation Law, MOECAF shall set standards of environmental qualities as agreed by the Union Government and the Environmental Conservation Committee as follows:

(a) standard quality of water related to the use of inland water available to public places, dams, ponds, swamps, flooded land, channel, creeks and rivers

(b) standard quality of water at coastal regions and delta area

(c) standard quality of groundwater

(d) standard quality of air

(e) standard of noise and vibration

(f) standard of odor and emission gas

(g) standard of wastewater

(h) standard of soil and leachate from solid waste

(d) other standard environment qualities set by the Union Government

As of October 2013, these above standards have not been set yet. Therefore, the Project proponent set quantitative target levels on air quality, noise, and vibration which may cause adverse impact to surrounding environment by the Project. Each quantitative target level to be applied is described below.

2.6.1 Air Quality

There is no ambient air quality standard to receptors in Myanmar. On the other hands, most of the countries in south-east Asia have the ambient air quality standard to receptors as well as in Japan. International standard is also available in the Environmental, Health, and Safety (EHS) Guidelines

prepared by International Fiancé Cooperation (IFC). Table 2.6.1-1 shows ambient air quality standard in south-east Asia countries, Japan, IFC.

Table 2.6.1-1 Ambient Air Quality Standard in South-East Countries, Japan, IFC

Item	Averaging period	Japan	Thailand	Vietnam	IFC
SO_2	10 min	-	-	-	0.5 mg/m^3
	1 hour	0.1 ppm	0.3 ppm	0.35 mg/m^3	0.125 mg/m^3(Interim Target-1) 0.05mg/m^3(Interim Target-2) 0.02mg/m^3(Guideline)
	24 hours	0.04 ppm	0.12 ppm	0.125 mg/m^3	-
	1 year	-		0.05 mg/m^3	-
NO_2	1 hour	-	0.17 ppm	-	0.2 mg/m^3
	24 hours	0.04-0.06 ppm	-	-	-
	1 year	-	0.03 ppm	-	0.04 mg/m^3
NOx	1 hour	-	-	0.2 mg/m^3	
	24 hours	-	-	0.04 mg/m^3	
CO	1 hour	--	30 ppm	30 mg/m^3	-
	8 hours	20 ppm	-	10 mg/m^3	-
	24 hours	10 ppm	9 ppm	-	-
TSP	1 hour	-	-	0.3 mg/m^3	-
	24 hours	-	0.33 mg/m^3	0.2 mg/m^3	-
	1 year		0.10 mg/m^3	0.14 mg/m^3	-
PM_{10}	24 hours	-	0.12 mg/m^3	0.15 mg/m^3	0.15 mg/m^3(Interim Target-1) 0.10 mg/m^3(Interim Target-2) 0.07 mg/m^3(Interim Target-3) 0.05 mg/m^3(Guideline)
	1 year	-	0.05 mg/m^3	0.05 mg/m^3	0.07 mg/m^3(Interim Target-1) 0.05 mg/m^3(Interim Target-2) 0.03 mg/m^3(Interim Target-3) 0.02 mg/m^3(Guideline)
SPM	1 hour	0.2 mg/m^3	-	-	-
	24 hours	0.1 mg/m^3	-	-	-
$PM_{2.5}$	24 hours	0.035 mg/m^3	0.05 mg/m^3	-	0.075 mg/m^3(Interim Target-1) 0.05 mg/m^3(Interim Target-2) 0.0375 mg/m^3(Interim Target-3) 0.025 mg/m^3(Guideline)
	1 year	0.015 mg/m^3	0.025 mg/m^3	-	0.035 mg/m^3(Interim Target-1) 0.025 mg/m^3(Interim Target-2) 0.015 mg/m^3(Interim Target-3) 0.01 mg/m^3(Guideline)
Ozone	1 hour	-	0.10 ppm	0.3 mg/m^3	-
	8 hour daily maximum	-	0.07 ppm	0.2 mg/m^3	0.16 mg/m^3(Interim Target-1) 0.1 mg/m^3(Guideline)
	1 year	-	0.04 ppm	0.14 mg/m^3	-
Ox	1 hour	0.06 ppm	-	-	-
Pb	24 hours	-	-	0.0015 mg/m^3	
	1 month	-	0.0015 mg/m^3	-	
	1 year	-	-	0.0005 mg/m^3	

Source: National Air Quality Standard in Japan (Circular No. 25, 1973, originally), Ministry of Environment, Japan
Notifications of National Environmental Board No.10, 24, 28, 33, and 36, Ministry of Natural Resources and Environment, Thailand
National Ambient Air Quality Standard (TCVN5973:2005), Ministry of Science and Technology in Vietnam
Environmental, Health, and Safety Guidelines, General EHS Guidelines, IFC, 2007

2.6.2 Noise

There is no noise standard in Myanmar. South-east Asia countries such as Thailand, Vietnam, and Indonesia as well as IFC EHS Guidelines have their ambient noise standards but not have standards along road. In Japan, there are several noise standards and guidelines along the roads depending on types of the roads and land use. Among the standards and guidelines, request limit for noise from vehicle under noise regulation act is adopted as shown in Table 2.6.2-1.

Table 2.6.2-1 Request Limit for Noise from Vehicle in Japan

Category	Land Use	Lane	Day time (Leq) (6am-10pm)	Night time (Leq) (10pm-6am)
a Zone	Exclusive Residential Area	1 Lane	65 dB	55 dB
		More than 2 Lanes	70 dB	65 dB
		4 Lanes categorized as main road	75 dB	70 dB
b Zone	Residential Area with small shops and office	1 Lane	65 dB	55 dB
		More than 2 Lanes	75 dB	70 dB
		4 Lanes categorized as main road		
c Zone	Commercial and Industrial Area	1 Lane	75 dB	70 dB
		More than 2 Lanes		
		4 Lanes categorized as main road		

Source: Noise Regulation Act, Japan (Law No.98, 1968, Amended No.33, 2006)

2.6.3 Vibration

There is no vibration standard in Myanmar. South-east Asia countries such as Thailand, Vietnam, and Indonesia have their vibration standards for damage of buildings etc. but not have standards along road. In Japan, there is a guideline along the roads depending on types of the roads and land use, called request limit for vibration from vehicle under vibration regulation act as shown in Table 2.6.3-1.

Table 2.6.3-1 Request Limit for Vibration from Vehicle in Japan

Category	Land Use	Day time (Leq) (5am-10pm)	Night time (Leq) (7pm-8am)
First Zone	Residential Area	65 dB	60 dB
Second Zone	Commercial and Industrial Area	70 dB	65 dB

Note: Local governor can decide starting time and ending time as day time requirement and night time requirement

Source: Vibration Regulation Act, Japan (Law No.64, 1976, Amended 2004)

2.6.4 Waste Water Standard in Myanmar

Currently, Myanmar has no specific waste water standard related to construction activities. The waste water standard shown in Table 2.6-4 is issued from the Ministry of Industry especially to be used for factories. It is referable and only one waste water standard available in Myanmar. However, the name of original regulation of the standard is not known.

Table 2.6.4-1 Industrial Wastewater Effluent Standard of the Ministry of Industry

No	Items	Allowable Rate	Unit	Notes
1.	BOD (5days at 20·°C)	max 20-60	ppm	Depending on geography of waste discharging point
2.	Suspended Solids	max 30	ppm	
3.	Dissolved solids	max 2,000	ppm	
4.	pH Value between 5 and 9 Permanganate value	max 60	ppm	
5.	Sulphide (as HS)	max 1	ppm	
6.	Cyanide (as HCN)	max 0.2	ppm	
7.	Oil and grease	max 5	ppm	
8.	Tar	none	-	
9.	Formaldehyde	max 1	ppm	
10.	Phenols and cresols	max 1	ppm	
11.	Free chlorine	max 1	ppm	
12.	Zinc	max 5	ppm	
13.	Chromium	max 0.5	ppm	
14.	Arsenic	max 0.25	ppm	
15.	Copper	max 1.0	ppm	
16.	Mercury	max 0.005	ppm	
17.	Cadmium	max 0.03	ppm	
18.	Barium	max 1.0	ppm	
19.	Selenium	max 0.02	ppm	
20.	Lead	max 0.2	ppm	
21.	Nickel	max 0.2	ppm	
22.	Insecticides	None	-	
23.	Radioactive Materials	None	-	
24.	Temperature	max 40	ºC	
25.	Colour and Odor	-		Not objectionable when mixed in receiving water

Source: Ministry of Industry

2.6.5 Institutional Arrangement

For implementing the project, a Project Management Unit (PMU) is expected to be set up at Denso Industrial Asia Ltd. Figure 2.6.5-1 shows the proposed organizational chart of the PMU. Under the supervision of the PMU HSE department will be set. One HSE manager will be assigned as responsible section for environmental and social consideration of the Project.

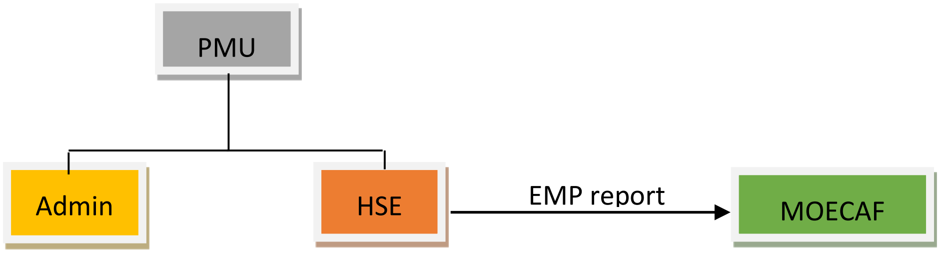


Figure 2.6-1 Organization chart for Environmental Management and Monitoring.

Chapter III Overview of Environmental and Social Baseline Conditions

3.1 Introduction

As part of this study, REM's environmental consultant team visited the proposed factory compound during third week of April, 2014. The purpose of the visit is to observe the environmental and social features of the area preliminarily and to collect primary information on the development of the factory. During the immediate field visit, REM team has studied the geographical, environmental and social situation of proposed area and its surrounding environment. Existing information on environment of the project is referred from recent measurement of the consultant and secondary data from various sources. Air and noise quality, soil and water quality are outlined for estimating potential impacts of the project.

3.2 Overview of Physical Environment

The existing physical environment in and around the proposed project site is studied based on the secondary data especially for geology, soil type, hydrology, and climate condition.

On the other hands, the prevailing condition of the physical environment is also studied by the available secondary data such as air quality condition, and noise quality condition around the project site.

3.2.1 Physiography and Drainage

The proposed project site is located in Hlaing Thar Yar Township which is one of the new towns emerged after 1988 in the suburban areas of Yangon city. It is also bounded by the two rivers; Hlaing River in the east and Panhlaing River in the south respectively.

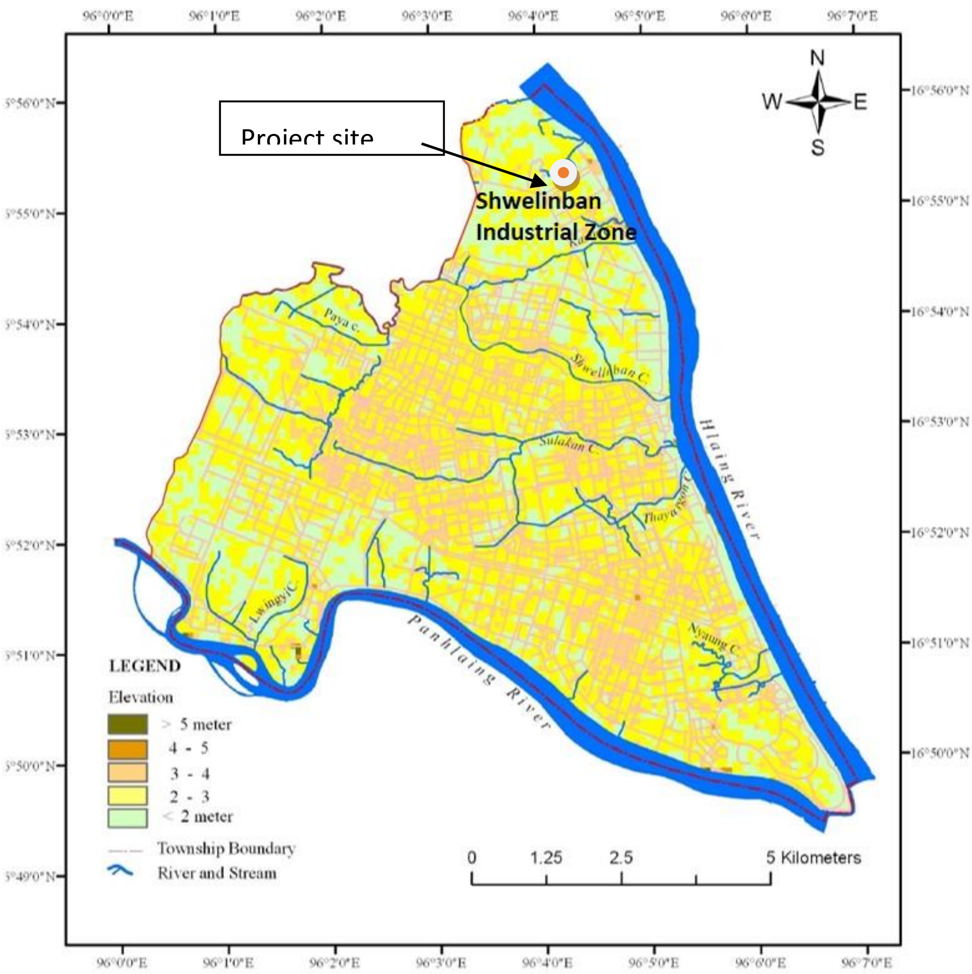


Figure 3.2-1 Map showing elevation above sea level shown in color shading and Drainage system in Hlaingtharyar Township (Source: Department of Geography, University of Yangon, 2011, GIS map based on UTM Map No. 16960, (2004), Survey Department and DEM)

The relief of the township is low and flat with a maximum elevation of about 5 meters above sea level only in a few area. Generally, most part of the region is lower than 5 meters. The area around Shwelinban Industrial Zone has a range of elevation from less than 2 to 3 meters. The area along the western bank of Hlaing River is relatively lower and liable to inundation in the rainy season.

The main streams are the Hlaing and Panhlaing rivers. The Hlaing River serves as the eastern boundary for about 13.72km (8.53mile). The river is the southern continuation of the Myitmakha River and it

flows south as the Yangon River into the Gulf of Mottama. Kasin, Shwelinpan, Sulatan, Tharyargon and Nyaungchaung creeks flow from the west into the Hlaing River. In response to seasonal rain, the depth and velocity of water in the rivers change markedly between the wet and dry seasons.

3.2.2 Geology of Hlaing Thar Yar Area

Stratigraphy and Lithostratigraphic units of the study area are described in Table 3.2.2-1. The uppermost unit of Hlaing Thar Yar Area is covered by alluvial deposit of recent geological age which is mainly composed of clay and silt with trace of sand. The recent alluvial deposit is underlain by Valley-filled deposits of Pleistocene age which are mainly of clay, silt, sand and fine to very coarse gravels, serving as a good reservoir as it is saturated with groundwater and yields large amount of water to all wells in Hlaing Thar Yar area. The Valley-filled unit is underlain by Danyingon Clay unit which consists mainly of reddish brown, grey to blue, laminated clays with interbedded sandstones.

Table 3.2.2-1 The Lithostatigraphic Units of Hlaing Thar Yar Township

Stratigraphic Unit	Geological Age	Lithostratigraphic Units	Stratigraphic Thickness (in feet)
Younger Alluvium	Recent	Alluvial Deposits	0 - 50
Irrawaddy Formation	Pleistocene	Valley-filled deposits	60 - 300
	Pliocene	Danyingone Clays	NA
		Arzanigone Sandrocks	NA

(**Source**: *Win Naing, 1972, The Hydrogeology of Greater Yangon*)

Danyingon clays unit is also underlain by Arzanigon sandstone unit which are of Pliocene age and are composed of yellowish gray to bluish grey loosely cemented sandstone, fine to coarse grained sometimes very coarse to gritty with intercalated clays and mudstone and siltstones. Although the unit yields moderate to fairly high amount of water through tube wells, iron content is undesirably high.

3.2.3 Climate Condition of Hlaing Thar Yar Area

As the studied area, Hlaing Thar Yar Township, is located in the low latitude area, the temperatures are high, except a few months in the cool season. The climatic conditions are the manifestation of seasonal shift of monsoon winds.

Based on the data acquired from Kabaraye meteorological station, the annual mean temperature is 24.9° C (76.82°F). The monthly mean temperature is highest in April with 30.5° C (86.9 °F) and lowest in January with 25.0° C (77°F). The annual range of temperature is 5.5° C (41.9°F). The low range is due to proximity to the sea. The monthly mean maximum temperature is considerably high in the hot dry season which often rise up to 40° C (104°F). Such intense heat enhances the rate of evaporation which in turn increases the amount of soil moisture deficit. The monthly minimum mean temperatures are moderate and warm even in the cool season (Table 3.2.3-1, Figure 3.2.3-1).

Table 3.2.3-1 Temperature and Rainfall Conditions of Yangon area during 1998 and 2007 (Source: Data acquired from Department of Meteorological and Hydrology, Yangon, 2007)

Element	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Average
Monthly Rainfall (mm)	0.1	0.9	15.8	69.3	424.8	559.0	553.6	542.7	445.0	194.6	43.3	11.8	2861.2
Maximum Temperature (°C)	33.5	35.6	36.9	37.8	33.4	30.9	30.3	30.1	30.9	32.9	34.0	33.0	33.3
Minimum Temperature (°C)	16.6	18.1	20.4	23.2	23.2	22.6	22.4	22.4	22.5	22.5	20.5	17.3	21.0
Mean Temperature (°C)	25.0	26.8	28.7	30.5	28.3	26.7	26.4	26.3	26.7	27.7	27.2	25.2	24.9

The mean annual total rainfall is 2861.2 mm and it is received during the period from the second week of May to the end of October. Rainfall is highly seasonal and the dry period lasts for about 6 months and the long dry period is the chief reason of scarcity of water, as some households have no access to

central water supply system and cannot afford to sink tube-well. According to Koppen's climatic classification, the type of climate is Tropical Monsoon, distinct alternating wet and dry seasons.

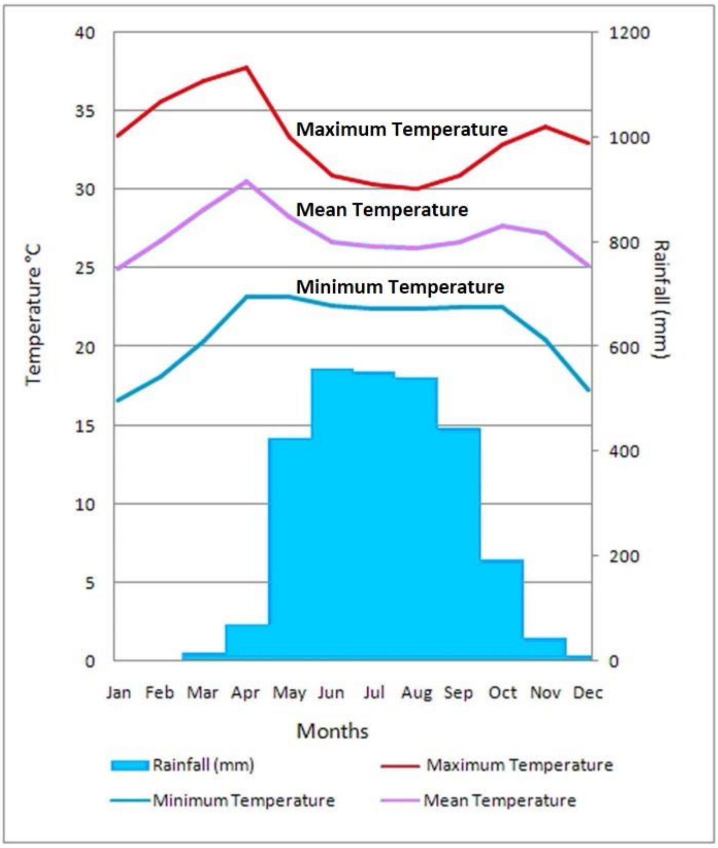


Figure 3.2.3-1 Climatograph of Hlaingtharyar Township during 1998 and 2007 based on the data from Table 3.2.3-1

Generally the climatic condition of the study area is favorable for human settlement, although occasional flooding and intense heat are undesirable. The flooding not only restricts the movement of people, but also causes the surface water highly contaminated which in turn leads to the incidence of water borne diseases to the inhabitants.

3.2.4 Soil Type

High temperature and abundant rainfall enhance soil formation. Most soils that develop within the township are derived from alluvium and thus the resultant soils are of ***meadow soils group***. Meadow soils cover most of the township area. Meadow gray soils develop in poorly drained areas. Meadow alluvial soils occur along both sides of the river banks of Hlaing and Panhlaing rivers.

As these soils have not matured, only thin “A” horizon is observed. The color ranges from grey to dark grey. Owing to high content of clay it is less impermeable and thus suitable for growing paddy. That soil has bluish grey or grey color with reddish or reddish brown spots. The clay content is high, resulting in water logging in the raining season. The PH value of the soils is between 5.6 and 6.5. These soils can be used as paddy land when after some modification. Salty mud flat develops within tidal forest (Myanmar Land Use Bureau, 1957). The meadow soils and their derivatives become slippery and sticky when wet and thus it needs to be hardened to have firm foundation for buildings or roads.

3.2.5 Natural Vegetation

The existing primary natural vegetation had been removed even before the establishment of the townships, since the area was used as paddy farmland and village land. The scattered large trees and most of the planted shade trees were destroyed by the powerful Nargis Storm in May, 2008. There are still some trees and Kokko (*Albizzia lebbek*), Khayay (*mimusops*), Padauk (*Pterocarpus macrocarpus*), Mango (*Curcuma amada*), Coconut (*Cocos nucifera*) and Nyaung (*Ficus obtusifolia*) are more common along the roads and some fruit trees within the house compounds. Along the creeks are some tidal forest species such as Lamu, Thahne and Dhani.

3.2.6 Wildlife Inhabitants

No wildlife inhabitants are present within the study area as the area is occupied by human residences and related buildings and infrastructures. A few bird species, mostly crow, sparrow and pigeon are fairly common, in addition to some snakes.

3.2.7 Air Quality

3.2.7.1 Relevant Air Quality Legislations and Guidelines

In views of legal policies and framework, Ministry of Environmental Affairs & Forestry signed/ratified the International Environmental conventions / protocols and agreements relating to air quality and they are detailed in Table 3.2.7-1

Table 3.2.7-1 International Air Quality Conventions/Protocols/Agreements Signed/Ratified by Myanmar

International Environmental Conventions/Protocols/Agreement	Date of Signature	Date of Ratification	Date of Member	Cabinet Approval Date
1. Kyoto Protocol to the Convention on Climate Change, Kyoto, 1997		13-8-2003 (Accession)		26/2003 (16-7-2003)
2. ASEAN Agreement on Transboundary Haze Pollution	10-6-2002	13-3-2003 (Ratification)		7/2003 (27-2-2003)
3. United Nations Framework Convention on Climate Change, New York, 1992 (UNFCCC)	11-6-1992	25-11-1994 (Ratification)		41/94 9-11-1994
4. London Amendment to the Montreal Protocol on Substances that Deplete the Ozone Layer, London, 1990		24-11-1993 (Ratification)	22-9-1994	46/93
5. Montreal Protocol on Substances that Deplete the Ozone Layer, Montreal, 1987		24-11-1993 (Ratification)	22-9-1994	46/93
6. Vienna Convention for the Protection of the Ozone Layer, Vienna, 1985		24-11-1993 (Ratification)	22-9-1994	46/93

3.2.7.2 Myanmar Laws and Regulations Relating to Emissions

Administrative Sector

1. The Explosive Substances Act, 1908
2. The Emergency Provisions Act, 1950

City Development Sector

3. The City of Yangon Municipal Act, 1922

(The Law Amending the City of Yangon Municipal Act, 1991) concerns emission of smoke, steam, particulates and toxic gases.

3.2.7.3. International Air Quality Guidelines and Standards

Air pollutants can have acute (short-term) and/or chronic (long-term) effects on human health/ecosystems. Therefore, air quality guidelines and thresholds are fundamentals to effective air quality management at the proposed project site. In terms of ambient air quality standard, there is no own air quality standard in Myanmar yet therefore the relevant guidelines and standards are adopted to compare with the findings. Table 3.2.7-2 presents relevant air quality guidelines and standards.

Table 3.2.7-2 WHO, USEPA, World Bank and EU Ambient Air Quality Standards/Guidelines

Pollutant	Averaging Period	Limit/Guideline Value/ Standards (µgm-3)	Relevant Standards/ Guidelines
NO_2	1 year	40	WHO Guideline
		100	NAAQS (USEPA)
		40 30	EU (human health) EU (vegetation)
		40	WHO Guideline
	24 hour	100	NAAQS (USEPA)
		150	WHO/World Bank
	1 hour	200	WHO Guideline
		200	EU (human health)
SO_2	1 year	50	WHO Guideline
		50	World Bank
		20	EU (ecosystem)
	24 hours	20	WHO Guideline
		80	NAAQS (USEPA)
		125	World Bank
		125	EU (human health)
	1 hour	365	NAAQS (USEPA)
		350	EU (human health)
CO	8 hour	10,000	WHO Guideline
		10,000	World Bank
		10,000	EU standard
	1 hour	30,000	WHO Guideline
		40,000	NAAQS (USEPA)
$PM_{2.5}$	1 year	10	WHO
	24 hour	25	WHO
		35	NAAQS (USEPA)
		50	World Bank
PM_{10}	1yr	40	EU (Stage 1) (human health)
		20	EU (stage 2) (human health)
		20	WHO Guideline
	24 hour	50	EU (Stage 1) (human health)
		50	EU (stage 2) (human health)
		50	WHO Guideline
		150	NAAQS (USEPA)
		70	World Bank
TSPM	24 hours		100

Source: WHO guidelines, 2005, USEPA National Ambient Air Quality Standards (40 CFR part 50), World bank

www.saaqis.org.za/filedownload.aspx?fileid=286)

3.2.7.4 Baseline Ambient Air Quality

Based on the geography of Hlaing Thar Yar Industrial zone, most areas are relatively uniform and flat region. Moreover, land use can be assumed to be more or less similar in nature depending on the locality like commercial, residential and nearby industrial source accordingly. Based on the prevailing wind directions of the proposed project site, the ambient air samples were collected from one location.

The air quality survey recorded the 24-hour average of Total Suspended Particulates (TSPM), Particulate Matter (PM10), Carbon Monoxide (CO), Sulphur Dioxide (SO_2), Nitrogen Dioxide (NO_2) and Volatile Organic Carbon (VOC) simultaneously along with meteorology condition at the monitoring sites.

Generally, the existing baseline level of dust (respirable PM10) in selected site was slightly higher than WHO guideline. According to the observations, these particles could have derived from wind-blown dust of open land as well as from construction activities nearby the factory project where there are some excavation sites rather than from industrial sources.

Baseline air quality for the air pollutants (CO, VOC and SO_2) indicated that the air quality around the proposed project site was good.

(a) Ambient Dust Levels

The results from the baseline survey indicated that the 24-hour average levels of PM 2.5 is less than WHO guideline whereas PM 10 is not met with the WHO guideline but it is met with the NAAQS (USEPA) standard.

Table 3.2.7-3 Baseline PM10 and TSPM Concentrations in Hlaing Thar Yar (24-hr Average)

Location	PM10 in µg/m³	TSPM in µg/m³
Point 3 (near to West Yangon University)		
Day & Night (average)	**45.25**	**249**
Yangon Data; 2007-2008	**136.92**	**188.66**
WHO guideline	50[1]	100[1]
NAAQS (USEPA)	150[1]	NA

(1) 24hr average

Bold indicates higher than WHO air quality guidelines

NA – not available

Yangon data was conducted near around point 1 in the November, 2008.

(b) Ambient Gaseous Levels

Table 3.2.7-4 presents the results of the ambient gases levels continuously monitored per minute over an average 24-hr period in the Hlaing Thar Yar Industrial area.

The survey results at the air monitoring station indicated that baseline contents of CO, SO_2 and NO_2 are met both the WHO guideline and NAAQS (USEPA) standard.

Table 3.2.7-4 Baseline Ambient Gases Levels (24-hr Average)

Location	CO ppm	VOC ppm	SO2 ppb	NO2 ppb
Point 3 (West Yangon University)				
Day & Night (average)	0	0	2.16	37.5
Yangon Data; 2007-2008	NA	NA	2.23	22.88
WHO guideline	NA	NA	20[1]	40 (annual)
NAAQS (USEPA)	9(8hr)	NA	0.5(3hr)	53(annual)

(1) 24hr average

Bold indicates higher than WHO air quality guidelines

NA – not available

Yangon Data was conducted in Insein near around the proposed project site in November, 2008

(c) Local Climate

Table 3.2.7-5 presents 24hr average condition of local climate during the sampling period.

Table 3.2.7-5 Local meteorology (24-hr Average)

Sr	Temperature Deg (C)	Relative Humidity (RH) %	Wind Speed (kph)	Wind Direction (Deg)
1	31	73	3	150

3.2.8 Noise Condition in the Present Project Area

3.2.8.1 Introduction

In this study, we used the secondary data of noise quality for the future noise prediction.

The impact of noise sources on surrounding community depends on:

- Characteristics of the noise sources (instantaneous, intermittent or continuous in nature). It is well known that a steady noise is not as annoying as one that is continuously varying in loudness.
- The time of day at which noise occurs, for example loud noise levels at night in residential areas are not acceptable because of sleep disturbance.
- The location of the noise source, with respect to noise sensitive land use, which determines the loudness and period of noise exposure.

3.2.8.3 Equivalent Sound Pressure Level (Leq)

The Leq is the equivalent continuous sound level, which is equivalent to the same necessary because sound from noise source often fluctuates widely during a given period of time. This is calculated from the following equation:

Leq (hrly) = L50+ (L10 - L90)2/60

Also:

- L_{day} is defined as the equivalent noise level measured over a period of time during day (6 am to 10 pm).
- L_{night} is defined as the equivalent noise level measured over a period of time during night (10 pm to 6 am).

Ambient noise quality result of the Hlaing Thar Yar is as given in Table 3.2.8-1 and Figure 3.2.8-1.

Table 3.2.8-1 Hourly Noise data (Day and Night timings in Leq dB(A))

Site Code	**N1**
6:00-7:00	46.861
7:00-8:00	45.586
8:00-9:00	51.604
9:00:-10:00	61.994
10:00-11:00	64.200
11:00-12:00	52.588
12:00-13:00	47.804
13:00-14:00	62.474
14:00-15:00	44.542
15:00-16:00	50.954
16:00-17:00	53.153
17:00-18:00	54.038
18:00-19:00	47.028
19:00-20:00	45.994
20:00-21:00	48.700
21:00-22:00	50.138
L_{day}	51.728
Day Limit	75
Night Hours	
22:00-23:00	54.760
23:00-00:00	51.524
00:00-1:00	52.263
1:00-2:00	50.211
2:00-3:00	41.133
3:00-4:00	45.617
4:00-5:00	46.141
5:00-6:00	43.154
L_{night}	48.100
Limit	70

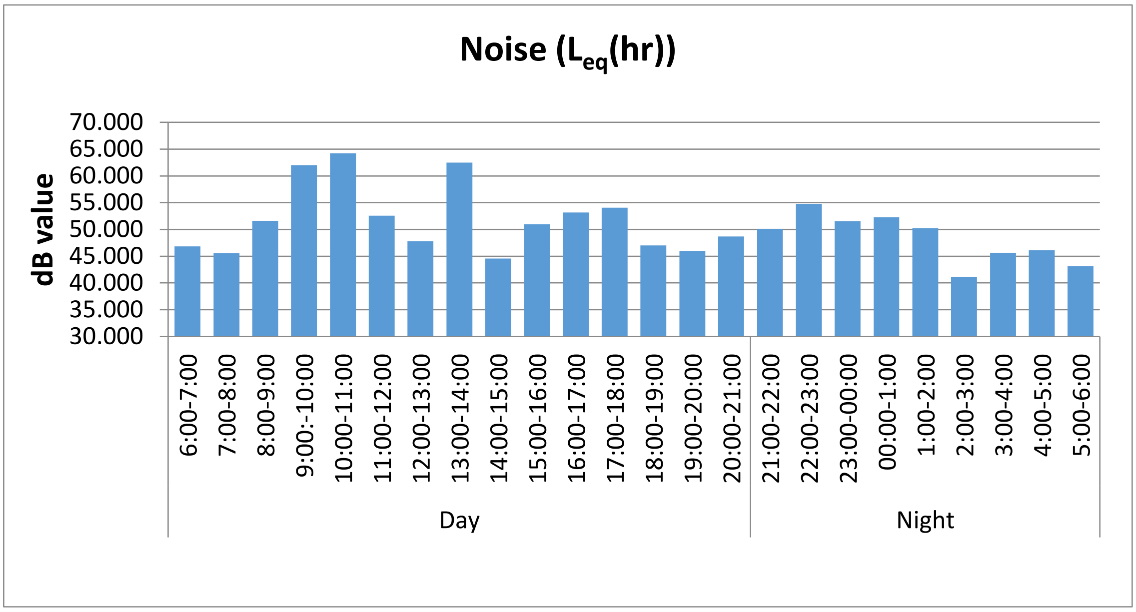


Figure 3.2.8-1 Variation of noise level during day time and night time in Hlaing Thar Yar Industrial zone.

The variation of noise level during day time and night time in Hlaing Thar Yar area is shown in Figure 3.2.8-1. The equivalent noise level L_{eq}24 hr (L_{day}) values of one location was 51.73 dB(A) and L_{night} value was 48.10 dB(A). These values are lower than the noise level standard of World Bank Standard. The main noise source probably comes from vehicle traffic.

3.3 Overview of Social Environment

The proposed factory is located in the Hlaing Thar Yar Township and the brief demographic profile of the Township is described below.

Hlaing Thar Yar Township is relatively a new town of Yangon City is located on a flat land with the average height of 100 feet above sea level. Pan Hlaing River which is the southern boundary of the township is flowing into Hlaing River from the west. Hlaing Thar Yar Township is located in the western bank of Hlaing River and is bounded by Insein Township in the east, Htantapin Township in the west, Twantay Township in the south and Shwepyithar Township in the north. Hlaing Thar Yar Township is connected old Yangon City with Bayintnaung Bridge, Anawyahta Bridge and Shwepyithar Bridge.

Population density of Hlaing Tha Yar is 14463.15 person/ mile^2 (5584.66 person/ km^2) and then population growth is around 7.15%/year during 1998 to 2011. Number of students is equivalent to 20% of total township population and so it can be estimated that daytime-nighttime population ratio will be high. More than 26 % of its employment is in the tertiary sector when around 10.05 % is primary employment, Domestic net production and value of services is 0.5 million kyat/person.

Public transportation modes in this township are road and railways transportation. In this township, sources of water for drinking and other use of residents are pipe water and tube well. For telecommunication sector, rate of household with land phone is about 0.12 % and it shows very low rate within Yangon Region.

Land use data shows that 3309 acres (13.39 km^2) cultivated land. For education sector, school enrollment rate of 5 years old children is 100 % but percentage of students eligible for university is only about 30.72 %.

The demographic profile of Hlaing Thar Yar Township is shown in Table 3.3-1.

Table 3.3-1 Profile of Hlaing Thar Yar Township.

LOCATION AND GEOGRAPHY	
Terrain	Latitude 17 to 17.10, Longitude 96 to 96.3
Above Sea Level	100 ft (30.48m)
Adjacent Territory (E/W/S/N)	Insein, Htantapin,Twantay, Shwepyithar
TOWNSHIP PROFILE	
Administration Structure	Ward 20
Main Three Ethnicity	Bamar 92.9%, Rakhine1.41%, Karen1.6%
Religion	Buddhist 174.90%, Christian 3.11%, Hindu 4.07%, Muslim 1.81%
DEMOGRAPHIC DATA	
Population (1998)	199,190
Population (2011)	488,768
Ratio of Male/ Female	1: 1.07 (Male 181110, Female 194932)
Ratio of Under 18 Years and Above 18 Years	1: 2.62
Share in Yangon Total Population (%) (2003)	8.3
Ave. Population Growth Rate 2000-2011 (%/yr)	7.15
Gross Population Density (2011)	14463.15 person/mile^2 (5584.66 person/km^2)
HOUSEHOLD INFORMATION	

Numbers of House	57,770
Numbers of Household	80,101
Ratio of Urban and Rural Household	Urban Only
Average Household Size (persons)	6
Average Monthly Household Income	212,308
INDUSTRIAL FIGURE	
Primary: Secondary: Tertiary Employee	**10.05: 68.83: 26.13**
Share of Population in Employment (%)	16
Sutdents in Total Population (%)	16
Domestic Net Production and Value of Services	**101,946.2 million kyat (0.5 million kyat/ person)**
Cultivated Land Area	3309 acre (13.39 km^2)
Fishery Farm Area	0
Numbers of Livestock	25,248
Numbers of Factory	740 (Public 1, Private 739)
Numbers of Main Market	14
INFRASTRUCTURE	
Road Length	64.9 mile (104.09 km)
Road Area (km^2)	
Railway Length (mile)	0.00
Inland water (mile)	3 mile (4.81 km)
Numbers of Bridge	Over 180 ft (0.05 km) 5
Numbers of Harbors	0
Numbers of Electric Power Plant	0
Distributed Electricity (kW)	626,000
Source of Water	Pipe water & Tube Well
Household with Telephones (%)	0.12
Household with Mobile Phones (%)	0.31
LAND USE (2012)	
Area	26 $mile^2$ (67.33 km^2)
SAFETY AND SECURITY	
Crime-fighting Force	223
Raito of Police Person and Population	1 : 1,686
Fire Brigade	Permanent 7, Reserve 261, Fire truck 41
Numbers of Crimes	Major 10 Crimes (21/year), Other Minor 7s (622/year)
EDUCATION	
Numbers of University & College/ No. Students	1/7400
Numbers of High School/ No. of Students	6/7342
Numbers of Middle School/ No. of Students	15/21200

Numbers of Primary School/ No. of Students	37/40035
Numbers of Pre School/ No. of Students	2/192
Numbers of Monastery Education/ No. of Students	10/3048
School Enrollment Rate of 5 Years Old Children (%)	100
Percentage of Students Eligible for University (%)	30.72
HEALTH	
Numbers of Hospital/ Clinic/ Maternity Center	3/3/0
Numbers of Doctor per 1,000	0.01
Death Rate during Child Birth (per 1,000)	6
Abortion (%)	3
RELIGIOUS	
Numbers of Pagoda/ Buddhist Temple	3/93
Numbers of Church	0
Numbers of Mosque	0
Numbers of Hindu Temple	0
Numbers of Chinese Temple	0
ENTERTAINMENT	
Numbers of Cinema	1
Numbers of Playground	5
Numbers of Park	2
Common Diseases and Occurrence Numbers	Malaria 33, Diarrheal 227, TB 444, Stomach Ailment64, Hepatitis 10

CHAPTER 4: SCOPING FOR INVESTIGATION OF INITIAL ENVIRONMENTAL EXAMINATION

4.1 Scoping for Initial Environmental Examination

The followings are the potential evidences and the degrees of impacts, which could arise at the time of project implementation for construction and operation of wire harness factory. The REA check list for this proposed project is also prepared. Rapid Environmental Check List (REA) for the proposed project is shown in Table 4.1-2.

Table 4.1-1 Results of Scoping

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
Pollution	Air Quality	B-	D	**DC:** Emissions from construction equipment, dust arising from construction and renovation activities, and air pollutants due to construction vehicles are anticipated. **OS:** Air pollution impacts will not be anticipated because there are no emission sources.
	Water Quality	B-	D	**DC:** Muddy water inflows to drainage from bare land of construction site may deteriorate water quality. **OS:** It is not anticipated that the factory may cause water pollution to the rivers, channels, and water sources in the surrounding area.
	Solid Waste	B-	D	**DC:** Generation of construction waste by construction activities and removal of structure are anticipated. **OS:** Impact on solid waste is not anticipated because there is good solid waste collection system.
	Soil Contamination	C	D	**DC:** It is necessary to confirm existing status soil contamination in the project area. **OS:** No activities causing soil contamination are anticipated.
	Noise / Vibration	B-	B-	**DC:** Noise and vibration from operation of construction machinery and on-site vehicles are anticipated. **OS:** Noise impacts will be anticipated because of using machine.
	Subsidence	D	D	Intake of underground water that cause subsidence are not anticipated.
Natural Environment	Natural Preserve	D	D	No natural preserve area exists in and around the project site.
	Flora/ Fauna	D	D	No impact on flora and fauna. The project site is within the industrial compound.
Social Environment	Involuntary Resettlement	D	D	The project site is within the industrial compound. The proper land acquisition has been done.
	Poor	B+	B+	**DC:** Job opportunity and commercial activities may be enhanced by construction works that lead the poor to increase their earnings. **OS:** By operation of the factory, local people from surrounding areas may get jobs and economical activities may be enhanced that leads poor to increase their earnings.
	Indigenous and Minor People	D	D	No indigenous and minority people are in and around the site.
	Local economy such as employment and livelihood	B+	B+	**DC:** There will be job opportunities for locals and the regional economy will be boosted. Moreover, the other local resources and food will be procured at the site. **OS:** The local economy and employment will be boosted with the improvement of the operation.
	Water Use	D	D	Because the project does not use water and domestic use for workers, no significant impact on water use is anticipated
	Cultural Heritage	D	D	The project site is located within the industrial zone, there might be no change to existing land and no impact to cultural heritage is anticipated.
	Gender	D	D	No negative impact on gender is anticipated.
	Working Environment	B-	D	**DC:** It is necessary to consider occupational safety and health during construction. Also, accidents to a third person are anticipated. **OS:** There are no significant negative impacts to labors at the operation stage.
Others	Accident	B-	B-	**DC:** It is necessary to consider accidents during construction. **OS:** It is necessary to consider accidents during construction.

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
	Global Warming	D	D	No significant impact is anticipated because the project is existing building expansion project, thus construction area is limited. In addition, the project does not include large scale deforestation which may cause global warming directly.

Evaluation: A-: Significant Negative Impact A+: Significant Positive Impact
B-: Some Negative Impact B+: Some Positive Impact
C: Impacts are not clear, need more investigation
D: No Impacts or Impacts are negligible, no further study required

Table 4.1-2 Results of Scoping

Rapid Environmental Assessment (REA) Checklist | **Wire Harness**

Instructions:

☐ This checklist focuses on environmental issues and concerns. To ensure that social dimensions are adequately considered, refer also to ADB checklists and handbooks on (i) involuntary resettlement, (ii) indigenous peoples planning, (iii) poverty reduction, (iv) participation, and (v) gender and development.

Country/Project Title: Initial Environmental Examination and EMP for Manufacturing of Wire Harness in Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township

Sector Division: Yangon Region

SCREENING QUESTIONS	Yes	No	REMARKS
A. Project Siting In this project area…	☐	☐	The project site is within the industrial zone
▪ Densely population?	☐	N	
▪ Heavy with development activities?	☐	N	
▪ Adjacent to or within any environmentally sensitive areas?	☐	N	
▪ Cultural heritage site	☐	N	
▪ Protected Area	☐	N	
▪ Wetland	☐	N	

▪ Mangrove	☐	N	
▪ Estuarine	☐	N	
▪ Buffer zone of protected area	☐	N	
▪ Special area for protecting biodiversity	☐	N	
▪ Bay	☐	N	
B. Potential Environmental Impacts Will the Project cause…..	☐	☐	
▪ Impairment of historical/cultural monuments/areas, and loss/damage to these sites?	☐	N	
▪ Hazard of land subsidence caused by excessive ground water pumping?	☐	N	For domestic use only
▪ Social conflicts arising from displacement of communities?	☐	N	No project affected persons, no relocation activity
▪ Conflicts in abstraction of raw water for water supply with other beneficial water uses for surface and ground waters?	☐	N	
▪ Unsatisfactory raw water supply (e.g. excessive pathogens or mineral constituents)?	☐	N	
▪ Delivery of unsafe water to distribution system?	☐	N	
▪ Inadequate protection of intake works or wells, leading to pollution of water supply?	☐	N	
▪ Over pumping of ground water, leading to Stalinization and ground subsidence?	☐	N	
▪ Excessive algal growth in storage reservoir?	☐	N	
▪ Increase in production of sewage beyond capabilities of community facilities?	☐	N	
▪ Inadequate disposal of sludge from water treatment plants?	☐	N	No waste water
▪ Inadequate buffer zone around pumping and treatment plants to alleviate noise and other possible nuisances and protect facilities?	☐	N	
▪ Impairments associated with transmission lines and access roads?	☐	N	
▪ Health hazards arising from inadequate design of facilities for receiving, storing, and handling of chlorine and other hazardous chemicals.	☐	N	Only wire harness industry
▪ Health and safety hazards to workers from the management of chlorine used for disinfection and other contaminants?	☐	N	
▪ Dislocation or involuntary resettlement of people	☐	N	
▪ Social conflicts between construction workers from other areas and community workers?	☐	N	Technology transfer and train to local people and local experts management after 3 years
▪ Noise and dust from construction activities?	Y	N	Short term for renovation of existing structure

▪ Continuing soil erosion/silt runoff form construction activities?	☐	N	
▪ Delivery of unsafe water due to poor O&M treatment processes (especially mud accumulations in filters) and inadequate chlorination due to lack of adequate monitoring of chlorine residuals in distribution systems?	☐	N	
▪ Delivery of water to distribution system, which is corrosive due to inadequate attention to feeding of corrective chemicals?	☐	N	
▪ Accidental leakage of chlorine gas?	☐	N	
▪ Excessive abstraction of water affecting downstream water users?	☐	N	
▪ Competing uses of water?	☐	N	
▪ Increased sewage flow due to increased water supply	☐	N	
▪ Increased volume of sullage (wastewater from cooking and washing) and sludge from wastewater treatment plant.	☐	N	Shall install water treatment unit

CHAPTER 5 INITIAL ENVIRONMENTAL EXAMINATION and ENVIRONMENTAL MANAGEMENT PLAN

5.1 Potential Environmental Impact Identification, Evaluation and Mitigation

The identification and evaluation of potential environmental and social impacts arising from proposed factory have been carefully conducted by considering the activities of proposed project versus current social and environmental conditions during construction and subsequent operational period.

Owing to the location, nature of project, the significant level of impacts are low as long as recommended mitigation measures are effectively and properly implemented and managed.

Initial Environmental Examination on manufacturing of wire harness project is predicted and evaluated based on the Project description, existing environmental setting. Table 5.1-1 is the results of the IEE on the potential impacts identified as A, B, and C by scoping.

Table 5.1-2 Results of IEE

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
Pollution	Air Quality	B-	D	**DC:** Emissions from construction equipment, dust arising from construction and renovation activities, and air pollutants due to construction vehicles are anticipated. But impact is short time and construction site is small area. **OS:** Air pollution impacts will not be anticipated because there are no emission sources.
	Water Quality	B-	D	**DC:** Muddy water inflows to drainage from bare land of construction site may deteriorate water quality. **OS:** It is not anticipated that the factory may cause water pollution to the rivers, channels, and water sources in the surrounding area.
	Solid Waste	B-	D	**DC:** Generation of construction waste by construction activities and removal of structure are anticipated. **OS:** Impact on solid waste is not anticipated because there is good solid waste collection system.
	Soil Contamination	D	D	**DC:** No impact on soil contamination. **OS:** No activities causing soil contamination are anticipated.
	Noise / Vibration	B-	B-	**DC:** Noise and vibration from operation of construction machinery and on-site vehicles are anticipated. **OS:** Noise impacts will be anticipated because of mainly indoor noise from machines.
	Subsidence	D	D	Using underground water that cause subsidence are not anticipated.
Natural Environment	Natural Preserve	D	D	No natural preserve area exists in and around the project site.
	Flora/ Fauna	D	D	No impact on flora and fauna. The project site is within the industrial compound.
Social Environment	Involuntary Resettlement	D	D	The project site is within the industrial compound. The proper land acquisition has been done.
	Poor	B+	B+	**DC:** Job opportunity and commercial activities may be enhanced by construction works that lead the poor to increase their earnings. **OS:** By operation of the factory, local people from surrounding areas may get jobs and economical activities may be enhanced that leads poor to increase their earnings.
	Indigenous and Minor People	D	D	No indigenous and minority people are in and around the site.
	Local economy such as employment and livelihood	B+	B+	**DC:** There will be job opportunities for locals and the regional economy will be boosted. Moreover, the other local resources and food will be procured at the site. **OS:** The local economy and employment will be boosted with the improvement of the operation.
	Water Use	D	D	Because the project does not use water and domestic use for workers, no significant impact on water use is anticipated
	Cultural Heritage	D	D	The project site is located within the industrial zone, there might be no change to existing land and no impact to cultural heritage is anticipated.
	Gender	D	D	No negative impact on gender is anticipated.

Category	Scoping Item	Evaluation		Reason for Evaluation
		Before / During Construction (BC/DC)	Operation Stage(OS)	
	Working Environment	B-	D	**DC:** It is necessary to consider occupational safety and health during construction. Also, accidents to a third person are anticipated. **OS:** There are no significant negative impacts to labors at the operation stage.
Others	Accident	B-	B-	**DC:** It is necessary to consider accidents during construction. **OS:** It is necessary to consider accidents during construction.
	Global Warming	D	D	No significant impact is anticipated because the project is existing building expansion project, thus construction area is limited. In addition, the project does not include large scale deforestation which may cause global warming directly.

5.1.1 Impact to Flora and Fauna

The proposed project area has been designated as industrial zone and the location of factory is already cleared and filled with surplus earth. There is no prominent vegetation or fauna species exist within the fenced area. Hence, no potential impact to flora and fauna by the project activities is anticipated.

5.1.2 Impact due to Sewage Treatment and Disposal (construction and operation)

A proper sewage treatment unit shall be installed at the facility. Only the overflow of sewage which meets the effluent standard of internally practice, shall be discharged into the drainage. The remaining sludge inside septic is to be removed by contractor or city development service and finally transported to the waste water treatment. If the unit is effective and disposal service is running smoothly, there is no potential issue due to the sewage discharge of the facility is expected.

5.1.3 Industrial Waste Water (construction and operation)

The proposed factory is CMP basic production and no large quantity of chemical is intended to use and consequently no industrial waste water is anticipated to discharge.

5.1.4 Impact to surface water and groundwater quality

The construction and operation of the factory will not have any major impact to surface water and groundwater quality as mentioned adequate design and control measure are effectively managed and implemented. The surface runoff, waste management and spill containment plans are recommended to ensure that no spills or contaminated water released into the nearest water body.

5.1.5 Impact to Community and Employees Health by Dust Emission

The source of dust generated during the construction of the proposed project are probably production area, vehicle movement in exposed land and soil stockpile area. For the dust control measures, company is intended to use proper dust collector, vacuum cleaner, and screen at the source of dust creating device and activities. By applying these control measures, it is evaluated that the dust emission of the factory

is not likely to become significant issue and any impact related to the dust emission is negligible. Planting the tree is other consideration as those act as screen by hindering the movement of the dust.

5.1.6 Impact to Community and Employees Health by Noise

The movement of vehicles, transportation of material, machine operating in production line, cutting, grinding are the major sources of noise in the general industry. Noise is the unwanted nuisance that could impair the hearing ability of people in the situation that excessive noise level exposes repeatedly or continuous to the workers and community.

For the project in construction stage, major work shall take place in day time. Given the short duration of factory construction and machine foundation, the resulting noise impact is classified moderate in significant level, with the need of additional mitigation measures so as to attenuate the exposure to the local community and employees.

- Low noise emitting device/machine shall be used
- Vehicle/ engine are to be turned off while not in use
- High noise inducing activities shall be avoided in nigh time
- PPE for the workers working in noisy area
- Corrective action to take immediately if noise level is higher than occupational exposure limit

By providing these measures, it is predicted ambient noise level meet in occupational threshold limit at all times.

There is no ambient noise standard to receptors in Myanmar. However, most of the countries in south-east Asia have the ambient noise standard to receptors categorized land use or requirement of quiet as well as in Japan. International standard is also available in the EHS Guidelines prepared by IFC. Table 5.1.6-1 shows the target noise level and follows this standard in operation of garment factory.

Table 5.1.6-1 Ambient Noise Standard at Operation Stage in South-East Countries

Items		Day time (Leq)	Night time (Leq)
Indonesia	Noise standard for sensitive areas such as residences, hospitals, schools, places of religious worships	55 dB	
	Noise standard for office and commercial	65 dB	
	Noise standard for commercial and service	70 dB	
Malaysia	Sensitive Areas/ Low Density Residential Areas	55 dB (7am – 10pm, 15hrs)	50 dB (10pm – 7am, 9hrs)
	Sub Urban Residential	60 dB (7am – 10pm, 15hrs)	55 dB (10pm – 7am, 9hrs)
	Urban Residential	65 dB (7am – 10pm, 15hrs)	60 dB (10pm – 7am, 9hrs)
	Commercial and Business	70 dB (7am – 10pm, 15hrs)	60 dB (10pm – 7am, 9hrs)
Singapore	Sensitive Areas	60 dB (7am – 7pm, 12hrs)	55 dB (7pm – 10pm, 3hr) 50 dB (10pm – 7am, 9hr)
	Residential Areas	65 dB (7am – 7pm, 12hrs)	60 dB (7pm – 10pm, 3hr) 55 dB (10pm – 7am, 9hr)
	Commercial Areas	70 dB (7am – 7pm, 12hrs)	65 dB (7pm – 10pm, 3hr) 60 dB (10pm – 7am, 9hr)
Thailand	Noise standard	70 dB (24hrs)	
Japan	Sensitive Area (Class AA)	50 dB (6am – 10pm, 16hrs)	40 dB (10pm – 6pm, 8hrs)
	Residential Area (Class A and Class B)	55 dB (6am – 10pm, 16hrs)	45 dB (10pm – 6pm, 8hrs)
	Commercial and Industrial Area (Class C)	60 dB (6am – 10pm, 16hrs)	50 dB (10pm – 6pm, 8hrs)
IFC	Residential; institutional, educational	55 dB (7am – 10pm, 15hrs)	45 dB (10pm – 7am, 9hrs)
	Industrial; commercial	70 dB (7am – 10pm, 15hrs)	70 dB (10pm – 7am, 9hrs)

Source: Nose Standard in Indonesia (KEP-48/MENLH/11/1996)
Effect of Traffic Noise on Sleep: A Case Study in Serdang Raya, Selangor, Malaysia, Environment Asia, 2010
Environmental Protection and Management Act in Singapore (Chap.94A, Section 77, revised in 2008)
Notification of Environmental Board No. 15 B.E.2540(1997) under the Conservation and Enhancement of National Environmental Quality Act B.E.2535 (1992) dated March 12, B.E.2540 (1997) and Notification of Pollution Control Department ; Subject: Calculation of Noise Level Dated August 11, B.E. 2540 (1997) in Thailand

5.1.7 Fire Hazard

Improper storage, handling, transferring of fuel including bunker, diesel, gasoline could create major fire event that might in turn, develop injured to people, loss of life, damage to property, equipment of company and community living adjacent to the project site.

The proposed project is expected to be using generators for electrical power if the power is not available from national power grid. If it is the case, large amount of diesel and/or petrol could be stored and consumed for power supply in the factory facilities.

Despite the fact that storage facility and its fuel tank (over ground or underground) design remain unknown during the preparation of this report, following additional fire protection measures are recommended to adopt in considering of the fuel tank design, lay out plan of project and quality of device.

- Fuel tanks are to be constructed in accordance with international best practices.
- Fuel tanks shall be located in a safe distance from the possible ignition sources.
- Prevailing wind direction is to consider in the allocation of the tanks
- Fire safety plan and emergency management plan shall be set up.
- Rated electrical equipment /appliance are to be purchased.
- Electrical safety procedure has to be developed and incorporated into the project safety management system.
- Good housekeeping shall be maintained in the life of project
- Fire suppression system shall be facilitated.

- Appropriate training programs are to be set up and given to the employees such as fire safety, safe handling of fuel, advance firefighting.

5.2 Potential Social Impact Identification, Evaluation and Mitigation

The proposed factory is located in the industrial zone and it is also surrounded by houses of local residents. The social issues likely to cause due to the interaction between project activities and existing local community have been predicted by considering the various aspects of social receptors.

5.2.1 Land Use and Resettlement

The industrial zone is established with the purpose of development of industrial infrastructure by Yangon Regional Government. Since there is no household inside the compound, relocation and resettlement process are not involved in this project. For that reason, there is no Project Affected Peoples (PAPs) as well as there is no negative impact on socio-economic status of the indigenous people.

5.2.2 Culture Site

There is no historical, archaeological, historical and cultural important sites are located inside the industrial zone. Consequently, the impacts on these issues are not envisaged.

5.2.3 Positive Impact on Employment and skill

There will be more employment opportunities resulting from the existence of project. Hiring local people for semi –skilled and non –skilled work shall bring the beneficial aspect to local community and increase the income of individual family. The prospect of an increased income and greater autonomy is likely to cause an increase in the aspirations of local communities both those involved with the project and, to a lesser extent, those from other working individually. This is a direct positive effect with a moderate extent and long-term duration. As consequence, it is considered as a major beneficial impact resulted from the project.

In order to attain the benefit to local community, project should prioritize in hiring local people based on nearest villages and wards, while employing workers required both construction and operation period. The use of children as laborers shall be avoided. Some vocal training as per the requirement of the jobs should be organized. Such activities shall enhance the skill and knowledge of people and consequently improve the living standard of community. It is perceived that organizing capacity building training will be beneficial effects to community along with securing their income and stabilizing the family status.

5.2.4 Impact to Community Health, Safety, and Hygiene

Impacts of the project on public health are likely to arise from construction and operation. There will be a potential for diseases to be transmitted, exacerbated by inadequate health and safety practices. Company will therefore be required to recruit an environmental, health and safety personnel to address environmental, health, and safety concerns in the factory. Regular medical checkup is suggested to give to all employees working within the premise of factory. As a part of corporate social responsibility, company should consider giving voluntary medical services to the local people.

5.2.5 Impact to community life style

The industrial zone is located closed to the local village area. As a result, there will be increased social interactions between factory and local community.

The more interaction between those two parameters can improve the social cohesion. On the other hand, it might let lead to develop unnecessary crime and antisocial behavior within the community. The expected social issues include social misconduct. As a mitigation measures, company shall develop the policy relating to social code of conduct for its employees mentioning how to deal with local people and how to treat them antisocially accepted manner.

5.2.6 Impact to local business

One of the foreseeable beneficial impacts is the improvement of local business due to the existence of the factory and its activities. Local shop and restaurant shall be benefited for the project by purchasing necessary items including food stuff.

In order to strengthen this beneficial effect, company purchasing policy should be local oriented and company employees are encouraged to source the purchased items locally. Food and other personal used staff should be bought at the local shops.

5.3 Environmental Management Plan

The project categories (based on ADB or JICA guideline) evaluated as A, B or C according to the result of the impact assessment, and mitigation for both construction stage and operation stage are shown in the tables below.

(1) During Construction

Table 5.3-3 Environmental Management Plan for SJY Shoe Factory (During Construction)

Category	Item	Stage	Mitigation	Implementing Organization	Responsible Organization
Pollution	Air Quality	During Construction (DC)	- Spraying of water in construction area - Limited speed and covering of materials during transportation for construction materials - Protective equipments for workers - Regular check and maintenance of vehicles and construction equipments	Contractor	HSE Department
	Water Quality	DC	- The fuel storage and vehicle cleaning area will be stationed such that runoff from the site does not drain into the water body. - Oil interceptors will be provided at construction vehicle parking area, vehicle repair area and workshops ensuring that all wastewater flows into the interceptor prior to its discharge. - The work site will be cleaned and restored to pre-project conditions.	Contractor	HSE Department
	Solid Waste	DC	- Utilization of construction soil, - Appropriate disposal of removed materials	Contractor	HSE Department
	Noise / Vibration	DC	- Carry out loud construction activities during day time - Restriction of time to implement constriction activities	Contractor	HSE Department
Social Environment	Working Environment	DC	- Thorough education to labors and enlighten activity. - Distribution of safe equipment	Contractor	HSE Department
Others	Accident	DC	- Thorough education to labors and enlighten activity. - Distribution of safe equipment	Contractor	HSE Department

(2) Operating Stage

Table 5.3-4 Environmental Management Plan for SJY Shoe Factory (Operating Stage)

Category	Item	Stage	Mitigation	Implementing Organization	Responsible Organization
Pollution	Air Quality	Operation Stage (OS)	- Air pollution monitoring plan	HSE Manager	HSE Department
	Noise	OS	- Implementation of regular noise monitoring in and around factory	HSE Manager	HSE Department
Natural Environment	Greening Area	OS	- Plantation and gardening along the fence	HSE Manager	HSE Department
Social Environment	Existing Infrastructures and services	OS	- Planning for CSR program and establish the Fund for donation and other social activities	HSE Manager	HSE Department

5.4 Environmental Management at Denso Industry

5.4.1 Our Principles for Environmental Practice

We, DENSO INDUSTRY, acknowledge that it is our mission to pass on the healthy global environment to the next generation by eliminating the negative legacy for the earth's future. Hence, we make our best efforts to protect and improve the global environment through our business activities.

5.4.2 Environmental Policy

Under our slogan "practice the eco-friendly business," we focus on the comprehensive environmental protection in our daily business activities centered on manufacturing, assembling and distributing of electronic components (harness).

We set the following policy to promote our environmental activities, including improving in-house work environment and greening all products made by us, and to keep track of the state of achievement.

1. We stay conscious of the environmental impacts that may be caused by our business practices, products and services. We make the best possible efforts to take preventive measures for environmental contamination and to promote our environment conservation activities as well as to make continuous improvements to our environmental management system.

2. We comply with all environmental laws and regional regulations relating to our business activities as well as the industry-specific agreements. Also, by setting our own standard, we make utmost efforts, both technically and financially, to promote improvement in our business activities.

3. We conduct in-house education and training programs to raise employees' awareness about the environment conservation as well as to enrich their understanding of our environmental policy. We pursue our environmental improvement activities by articulating specific measures and policies.

4. We observe and supervise the environmental conservation activities and the environmental quality control systems of the group companies.

5. To adhere to this environmental policy, we set clear objectives and periodically review them. We promote the environmental activities on a company-wide level including our subcontractors.

The following Figure is showing environmental management structure of the company.



Figure 5.4.2-1 Institutional arrangement of Denso Industrial Asia Col., Ltd.

CHAPTER 6 ENVIRONMENTAL MONITORING PLAN

6.1 Environmental Monitoring Plan

Concerning about the items of impacts for both during construction stage and operation stage, current monitoring items, frequency, spot and responsible organization are shown below. Ministry of Environmental Conservation and Forestry (MOECAF), the responsible institution is planned to be a report destination.

Table 6.1-5 Monitoring Plan of the Proposed Project

Survey item	Item	Spot	Frequency	Responsible Organization
[During Construction]				
Common	- Monitoring of mitigation measures	-	Once/month	HSE Department
Solid waste	- Record of waste generated (Number and receiving place)	Factory Compound	Daily	HSE Department
Noise	- Complaints from residence	Factory Compound	Daily	HSE Department
Working Environment	- Prehension of condition of occupational safety and health	Factory Compound	Daily	HSE Department
Accident	- Accident record	Factory Compound	As occasionally	HSE Department
[Operation Stage]				
Common	- Monitoring of mitigation measures	-	Once/3 months	HSE Department
Air Pollution	- SO_2, NO_2, CO, TSP, PM10	Factory Compound	Once/1 year	HSE Department
Noise	- Traffic volume, Noise	Factory Compound	Once/1 year	HSE Department
Accident	- Existence of accident	Factory Compound	As occasionally	HSE Department

6.2 Implementation system for Environmental Monitoring Plan and Mitigation Measures

As for implementation system for environmental monitoring and mitigation plan, Health, safety and environment (HSE) department will be formed by project proponent and MOECAF will become responsible institution for receiving Environmental Management Plan (EMP) report. HSE manager is in charge of monitoring and preparation of its results. The Developer will submit the monitoring report at operation phase to MOECAF or Industrial Zone Management Committee. The estimated budget for environmental monitoring and CSR program is shown in Table 6.2-1.

Table 6.2-1 Estimate budget for Environmental and Social Monitoring

Item	Cost (USD) per year
1. Cost of environmental monitoring programme	26,500
2. Other CSR activities (athletics, education prizes, charities etc.)	15,400

CHAPTER 7 STAKRHOLDER MEETING

7.1 Stakeholder Meeting and Participation process

Stakeholder meeting was held in 26th April 2014. The Interviews were made between the project stakeholders, the General Administrative Officer and Heads and Elderly persons of the Industrial area. The stakeholder meeting was held in the Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township, Yangon Region. The detailed of meeting schedule, attendees and record of meeting minute are described below.

Table 7.1-1Focus Group Meetings

No.	Date	Name of town/Village	Participation	Arranged by
1	26.04.2014	Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township	Administrator, AGD, Elderly Persons of Industrial Area and REM	REM Co. Ltd.

Denso Industry Asia

IEE of Manufacturing for wire harness

Stakeholder Meeting Minutes

Date: : 26.4.2014 (Saturday)

Time: : 10:00 am – 11:30 am

Place: : Thukhitaryarma Sarsana Goneyay Monastery, Kasinmyaytine Ward, Hlaingtharya Township, Yangon Region.

Mr. Mishima (Project Manager, Denso Company) greeted that thank you for attending this meeting. Firstly he explained about company.

Our main office at Yokohama in Japan since 1958 and factory projects were extended from 1958 to 2012.

Our products are small electrical wire harness and that are used for cable in TV, DVD, Digital Camera, Computer, TV Game and Video Camera.

Our factory had got ISO 14001 and 9001 and green card from Sonny.

We conserved the natural environment. Main office in Tokyo which produce small cable for robot. He is working in Hong Kong main office.

Kan Tone office in China had 1000 employee and 600 employee worked in Shanhai office. This two office in China produced micro cables in TV Game.

We had already built and produced each two factories in China and Japan.

At last, We chose Myanmar because of our main customers are South East Asia stock and near to transport this countries. So we decided to built factory in Myanmar.

Nikkon Camera produced from Thailand and Sony from Malaysia.

Field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc. since 2010. The final decision was Myanmar, where our business can achieve rapid development. We chose Myanmar because of three facts. These are:

(1) We think that Myanmar is Buddhism Country so that Myanmar people have good morality. Since 2010, field survey and investment assessment have been conducted in Vietnam, Thailand, Cambodia, Laos, etc…The final decision was Myanmar, our business can achieve rapid development and high quality labour Force.
(2) We hope that positive attitude of Improvement on infrastructure, logistics, investment promotion in Myanmar.
(3) We think that more improve Enthusiasm in unifying the system of tax and legislation between public and private sectors in Myanmar Country.

Five facts for investment

1. Facilities investment (electronic component processing large-scaled Machinery) We will import five machines in 2015 and also reported to MIC 28 machines will import.
2. Human Resources Investment. (Japanese technician will train to Myanmar labours)
3. As capital investment (USD 800,000, USD 2,000,000 authorized)
4. Environmental Investment, we got ISO and Systematization of environmental regulations)
5. Education Investment: we choose hard worker and to send Japan for training.

Summarize the 20 years' experienced of factory operations in China, an inexperienced person can be trained into a well-skilled person through systematic guidance.

The two existing factories in China are size of from 500 to its maximum. We hope to use 1200 employees and create a lot of job opportunities in the future.

Our schedules are Factory contract with Shwe Lin Ban Industrial Zone in January, 2014. To report the MIC application in February, 2014. In June, we will Start of facilities import and import of material in July, 2014. We will start of operation in August, 2014 and product will export in September, 2014.

Our principle of investment are maintaining the employment, to gain profit rapidly and aiming at the expansion of the enterprise scale. To achieve a stable and sustainable management through the provision of welfare policy. To support the further development of Myanmar through the continuing social and economical contribution.

And then, Daw Pwint Pwint (Resource & environment Myanmar Co., Ltd.) demonstrated about IEE by power points.

Denso Industry Asia				
ဆွေးနွေးပွဲတက်ရောက်သူများစာရင်း				
စဉ်	အမည်	ရာထူး	ဌာန	လိပ်စာ/ ဖုန်းနံပါတ်
၁	ဦးမျိုးမင်းသန့်	တာဝန်ခံ	ရွှေလင်ဗန်းရပ်ကွက်	အမှတ်(၂၃၉)ရွှေလင်ဗန်းရပ်ကွက်
၂	ဦးအောင်သန်း	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	(၅၉၇)၊ ခရေ(၂)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၃	ဦးကျင်ရွှေ	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	(၅၉၇)၊ ခရေ(၂)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၄	ဦးဝင်းထွန်း	အုပ်ချုပ်ရေးမှူး	ကစင်(၂၃)ရပ်ကွက်	မ-၁၉၄၀ ကျန်စစ်သားလမ်း၊ကစင်(၂၃)
				၀၉-၄၂၀၁၈၆၄၆၄
၅	ဦးအောင်ကြည်	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၆	ဦးကျော်ရွှေ	ဆယ်အိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၇	ဦးဘခင်	ရပ်မိရပ်ဖ	ကစင်(၂၃)ရပ်ကွက်	ကစင်(၂၃)ရပ်ကွက်
၈	ဦးပြည့်ဖြိုးကျော်	စီမံခန့်ခွဲရေးရုံး	ရွှေလင်ဗန်းရပ်ကွက်	ရွှေလင်ဗန်းစက်မှုဇုံကော်မတီ ၀၁-၆၁၃၅၀၁
၉	ဦးမျိုးဇော်	စီမံခန့်ခွဲရေးရုံး	ရွှေလင်ဗန်းရပ်ကွက်	ရွှေလင်ဗန်းစက်မှုဇုံကော်မတီ ၀၁-၆၁၃၅၀၁
၁၀	ဦးရဲမြင့်ဦး	ဆယ်အိမ်မှူး	ရွှေလင်ဗန်းရပ်ကွက်	၂၆/ရွှေပဒေသာ(၂)လမ်း၊ ၀၉-၄၂၀၂၀၅၆၃၉
၁၁	ဦးမင်းသူ	ရာအိမ်မှူး	ရွှေလင်ဗန်းရပ်ကွက်	၂၆/ရွှေကန်သာလမ်း၊ ၀၉-၃၁၀၈၈၁၀၂
၁၂	ဦးကျော်သိန်း	ဆယ်အိမ်မှူး	ရွှေလင်ဗန်းရပ်ကွက်	၂၆/၆၀၊ ရွှေမြင့်မိုရ်လမ်း၊၀၉-၃၁၃၀၈၂၃၃
၁၃	ဦးမင်းသိန်း	ဆယ်အိမ်မှူး	ရွှေလင်ဗန်းရပ်ကွက်	၀၉-၇၃၀၅၇၇၀၀
၁၄	ဦးမြင့်လှိုင်	အုပ်ချုပ်ရေးမှူး	ရွှေလင်ဗန်းရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၅	ဦးအောင်ဝင်း	ဆယ်အိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၆	ဦးကြည်အေး	ရာအိမ်မှူး	ကစင်(၂၃)ရပ်ကွက်	ခရေ(၁)လမ်း၊ ကစင်(၂၃)ရပ်ကွက်
၁၇	ဦးကျော်ဇင်ဝင်း	Director	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၁၈	ဒေါ်ပွင့်ပွင့်	Senior Consultant	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၁၉	ဒေါ်ခတ္တာစိုး	Social Team	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၂၀	ဦးဒီလှိုင်းဇော်	staff	REM	ရွှေဂုံတိုင်၊ ဗဟန်းမြို့နယ်
၂၁	Mr.Mishima	General Manager	Denso Industry Asia	Hongkong

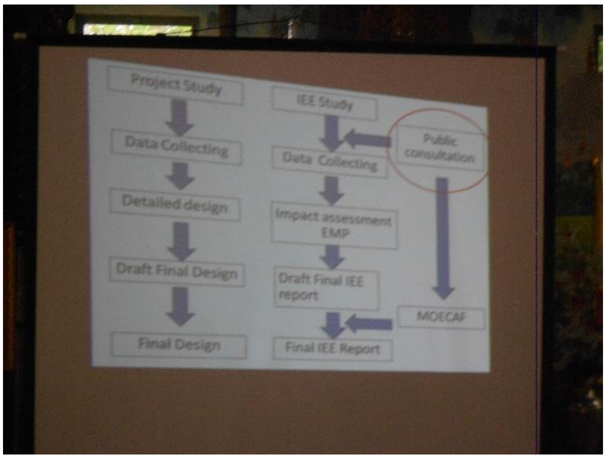
Stakeholder Meeting Photos













7.2 Environment Categorization of the Project

According to the directions by Myanmar Investment Commission Notification No. 1/2013: Stipulation of Type of Economic Activities (31 January 2013) described list of economic activities which are allowed in accordance with certain separately stipulated conditions and list of economic activities which are allowed with the Ministry of Environmental Conservation and Forestry (MOECAF)'s

recommendations. The restriction indicates "depending upon the business activity, to avoid environmental and social impacts, or to minimize the environmental and social impacts, it will be allowed only after conducting the initial study and assessment upon environmental and social impacts." Present Initial Environmental Examination assessed the potential impacts and ways to mitigate the negative impacts as well as to enhance the positive impacts.

For the sustainability policy, Asian Development Bank (ADB) uses a classification system to reflect the significance of a project's potential environmental impacts. A project's category is determined by the category of its most environmentally sensitive component, including direct, indirect, cumulative, and induced impacts in the project's area of influence. Each proposed project is scrutinized as to its type, location, scale, and sensitivity and the magnitude of its potential environmental impacts. Projects are assigned to one of the following four categories:

(i) **Category A.** A proposed project is classified as category A if it is likely to have significant adverse environmental impacts that are irreversible, diverse, or unprecedented. These impacts may affect an area larger than the sites or facilities subject to physical works. An environmental impact assessment is required.

(ii) **Category B.** A proposed project is classified as category B if its potential adverse environmental impacts are less adverse than those of category A projects. These impacts are site-specific, few if any of them are irreversible, and in most cases mitigation measures can be designed more readily than for category A projects. An initial environmental examination is required.

(iii) **Category C.** A proposed project is classified as category C if it is likely to have minimal or no adverse environmental impacts. No environmental assessment is required although environmental implications need to be reviewed.

(iv) **Category FI.** A proposed project is classified as category FI if it involves investment of ADB funds to or through a FI (paragraphs. 65-67).

According to above classification, present project is in the **Category B** which requires an initial environmental examination (IEE) that has already been conducted by the consultant team.

7.3 Conclusion and Recommendations

It is expected that the proposed electric wire harness Project has only minor negative impacts on Physical, Biological, Socio-economical and Cultural Environment. The impacts are mostly local in nature and insignificant. These impacts can be easily mitigated through adequate mitigation measures and regular monitoring during the Construction and operation Phase of the project.

The implementation of the proposed project will create a lot of beneficial and positive impacts in Physical, Biological and largely on Socio-economic environment. Significant improvement in local to

community economy is expected. This will finally enhance the living quality of people of the sub-project area.

From this IEE, it can be seen that no adverse or harmful impacts of any significance are expected and so a full scale EIA is not required. The project falls under the Category B of ADB's Guideline for which only IEE is required.

The IEE with the recommended institutional requirement and environmental monitoring plan becomes the completed EIA.

APPENDIX -1

Products

CASTING

C370A

AWG#10(5.5sq)～AWG#32(0.03sq)

量産に適した速さと、生産力の高さをコンパクトなボディで再現。
もちろん多品種ロット生産にもその威力を発揮します。



製品仕様

型 式		C370A
外形寸法		幅430mm×奥行450mm×高さ270mm
重 量		26kg
電 源		AC100V～AC240V(単相)50Hz/60Hz
消費電力(100V)		50W(定格)250W(最大)
カッティング長さ		0.1mm～99,999mm
カッティング公差		±(0.1 + 0.0005×L)mm※2 Lは切断長さ
ストリップ長さ	先端	0.1～30mm
	後端	0.1～30mm
加工可能ワイヤー	種類	AVSS,VSF, IV, KV, UL,テフロン , ガラス線等
	サイズ	AWG#10(5.5sq)～AWG#32(0.03sq)※2
	外径	最大 Max φ6mm※2
ワイヤー送り速度		可変可能
刃の材質		超微粒子合金
動 力		ステッピングモータ/エアーシリンダー

※2. 但し、線材によります。

加工能力（1時間あたりの加工本数）

全 長	本 数
50mm	10,500
100mm	10,300
200mm	9,100
300mm	8,700
500mm	7,600
800mm	6,400
1000mm	5,800
1500mm	4,700
2000mm	3,900
3000mm	3,000

加工条件

両端 3mmストリップ
加工速度：9
細線モード
電線：UL1007／AWG#22

KOEI ORIGINAL

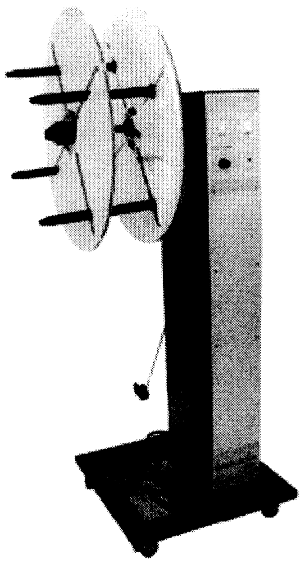
ボビンフィーダー。ボビンとテープ電線の低コスト型。

電線繰り出し機

TOP > 電線加工機 > 電線供給機 > 電線繰り出し機：HK-007

電線繰り出し機

ボビンとテープ電線の低コスト型



電線繰り出し機
HK-007

特長

- パワフルインバーター搭載電線繰出し機。
- 海外向け220V対応も可能。
- バックテンションを最小限に抑えます。
- ヨリを取り絡ませず最後迄スムーズに取り出せます。
- オプション搭載にて平行線テープ電線の供給機としても使用可能です。
- 右→左、左→右、両サイドの3機種があり、相手の機械を選びません。

仕様

電線繰りだし機：HK-007

製品名	電線繰り出し機
型式	HK-007
電圧	100V 50/60Hz ※220Vも対応可
外形寸法	W825 × L400 × H930 mm
重量	31kg

エム･シー･エム　Cosmic 927R　お問い合わせ　価格

超精密のロータリーブレードで高品質なストリップが可能



機能設定

- ツイスト: 有り／なし
- ブレード回転方向: 左／右回転
- 始動方式:タッチセンサー／フットスイッチ切り替え
- カッティングタイム: 無段階ダイヤル調整
- 切り込み径: デジタル表示

仕様

品　名	Cosmic 927R
適用電線	AWG36～10
ストリップ長	1～25.0mm
セミストリップ長	最小2.0mm～
ストリップ長設定単位	1mm
切り込み径設定単位	0.01mm
サイクルタイム	1.5sec／MAX
ブレード／材質	2枚刃／超硬
電源	AC100～240V, 60VA
外形寸法	W131×D 400×H218mm
重量	8kg

インターネット　100%

APPENDIX -2

QC Documents

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
1	Raw Material Flow In Inspection	QC Div		PN Qty Visual Packing	Supplier Guarar	Sampling	IQC Inspector	Visual	IQC Inspection Report (DGDS-QC-R001)	QC Div Div PIC	Wires/Cables Inspection Manual (DGDS-SB-003) Terminals Inspection Manual (DGDS-SB-004) Connector Inspection Manual (DGDS-SB-001) IQC Work Instruction (DGDS-WI-QC-003)
			Straight Ruler Vernier caliper Magnifier	PN Spec	Supplier Spec	managing checking					
			Data Bank (IQC Flow in Spection)		ICP Reading MSDS	every time					
2	Material Keeping	Material Div	Thermometer	Humidity Temperature	25±10degree 20%～85%	3times/day	Warehouse PIC	Visual	Humidity/Temp (DGDS-MC-R021)	Material Div Div PIC	Flow in Manual (DGDS-WI-MC-002) Flow out Manual (DGDS-WI-MC-003) Material storing Work Instruction (DGDS-WI-MC-005)
	Material, Part Flow Out		Measuring instrument (Electronic scale)	Qty		everytimes		Flow out Instruction Sheet			
3	Automated Single Sided Crimping	Production Div.1	Fully Automated Crimping Machine Aplicator Height Measurer Straight Ruler	Height stripping length terminals condition	Work Instructio Sheet	3pcs before produ 1 per 5k pcs	Div Pic	Visual	Auto Machine Daily Repo (DGDS-K-06-02) Work Instruction (DGDS-PD-R034) Attendance	Production Div. 1 Div PIC	Fully Auto Crimping (TR) (DGDS-WI-PE-292)
			Height Measurer Straight Ruler	Height Span Size Length	Drawing	1pcs/lot	Insector				Crimping visual check work instructi (DGDS-SB-013) pulling test work instruction (DGDS-WI-PD-179)
			Magnifier Pulling tester	Crimping Condition Pulling test	No Abnormality	1pc before produc 1pc after producti	Div Pic Inspector	Visual	inspection work instruction (DGDS-PD-R036)		inspection work instruction (DGDS-PB-003)
4	Checking on Crimping Condition		Magnifier	Deep crimping Sharrow crimping Crimping before stripping	No Abnormality	3pcs/lot	Div Pic	Visual		Production Div. 1 Div PIC	visual check work instruction (DGDS-SB-013)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

Production Div.1	Completed by	Confirmed by	⇒	Production Div	Confirmed by	Confirmed by	⇒	QC	Approved by	⇒	Document Control Center	Registered by
	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄			電創 2012.05.31 新 庄	電創 2012.05.31 王建南			電創 2012.05.31 吴海容			電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	−	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
				terminals deform pin deform conductor defect stripping defect rusty terminals							
5	wire packing	Production Div.1		Qty	2,500pcs/box	sampling	Div Pic	Visual	machine daily report (DGDS-K-06-02) Attendance working instruction (DGDS-PD-R034)	Production Div. 1 Div PIC	Fully Auto Crimping (TR) (DGDS-WI-PE-292)
6	Middle Inspection	QC Div	Height Measurer Straight Ruler Magnifier	Height Measurement crimping condition	No Abnormality	1pc/lot	Middle Inspector	Visual	Half finished goods sampling report (DGDS-QC-R006) Daily Report Work Insturction	QC Div Div PIC	Middle Check Manual (DGDS-PB-005) Crimping Visual Check Manual (DGDS-SB-013) Middle check standard (DGDS-WI-QC-015) sampling sheet (DGDS-WI-QC-001)
			Magnifier	Deep crimping Sharrow crimping Crimping before stripping terminal deform Pin change shape conductor defect stripping defect Rusty terminals	No Abnormality	Full qty					
7	R side conductor twist for soldering	Production Div. 2	paper	stripped portion alignm	No Abnormality	Full qty	Div Pic	Visual		Production Div. 2 Div Manager	alignment work instruction (DGDS-WI-PD-031)
8	R side soldering		solder pool temperature	temperature	270～330℃	3 times/day	Inspector	Visual	soldering inspection shee (DGDS-PD-R017)	Production Div. 2 Div Manager	soldering work instruction (DGDS-PB-001)
9	R side soldering inspection		Magnifier	sodering defects conductor defects	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div Manager	soldering inspection work instructio (DGDS-WI-PD-054) inspection work instruction (DGDS-PD-R008)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

Production Div.1	Completed by	Confirmed by	⇒	Production Div	Confirmed by	Confirmed by	⇒	QC	Approved by	⇒	Document Control Center	Registered by
	電創 2012.05.29 盧彩艶	電創 2012.05.31 新 庄			電創 2012.05.31 新 庄	電創 2012.05.31 王建南			電創 2012.05.31 吴海容			電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艶

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
10	R side drying		drying box	drying time temperature humidity	30～50℃ 50℃below	above 2 hrs	Div Leader	Visual	drying box temperature ((DGDS-PD-R0041-3)	Production Div. 2 Div Manager	
11	Middle Inspectior	QC Div	Height Measurer Straight Ruler Magnifier	Height Measurement crimping condition	No Abnormality	1pc/lot	Middle Inspector	Visual	Half finished goods sampling report (DGDS-QC-R006) Daily Report Work Insturction	QC Div Div PIC	Middle Check Manual (DGDS-WI-QC-005) Crimping Visual Check Manual (DGDS-SB-013)
			Magnifier	Deep crimping Sharrow crimping Stripping defects terminals deform pin deform wire defects	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025					
				soldering defects insulator defect	No Abnormality	1pc/lot					soldering work instruction (DGDS-WI-PD-037)
12	Insert black wir	Production Div. 2		incomplete inserting wires defects terminals deform	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	single side inserting work instructior (DGDS-WI-PD-284)
13	Connectivity		Magnifier	wrongly insert wires broken	No Abnormality	Full qty	Div Pic	Connectivity	inspection sheet (DGDS-PD-R008) daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	Connectivity work instruction (DGDS-PB-011)
14	Insert red wire			incomplete inserting wires defects terminals deform	No Abnormality	Full qty	Div Pic	Visual	daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	single side inserting work instructior (DGDS-WI-PD-284)
				wire defect							

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

Production Div.1	Completed by	Confirmed by	⇒	Production Div	Confirmed by	Confirmed by	⇒	QC	Approved by	⇒	Document Control Center	Registered by
	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄			電創 2012.05.31 新 庄	電創 2012.05.31 王建南			電創 2012.05.31 吴海容			電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⧖		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
15	connector inspection		Magnifier	connector deform connector defects incomplete inserting Rusty terminals terminals deform	No Abnormality	Full qty	Inspector	Visual	inspection sheet (DGDS-PD-R008) daily report (DGDS-PD-R005)	Production Div. 2 Div PIC	visual connecotr inspection work instruction (DGDS-WI-PD-021)

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

	Completed by	Confirmed by			Confirmed by	Confirmed by			Approved by			Registered by
Production Div.1	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄	⇒	Production Div	電創 2012.05.31 新 庄	電創 2012.05.31 王建南	⇒	QC	電創 2012.05.31 吴海容	⇒	Document Control Center	電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	－	5/29/2012	New part	盧彩艷

Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⋈		

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 3 ／ 3

Process				Manage Item					Accountability Document		
Work Flow Chart (Plan)	Work Flow Name (Implement)	Workstation	Equipment Test Equipment Jig	Manage Item (Check)	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name (Data Sheet)	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
16	Packing	Production Div. 2	Electrical Scale	aty	No Abnormality	200pcs/bag	Div Pic	Visual	daily report (DGDS-PD-R005) work instruction	Production Div. 2 Div PIC	packign work instruction (DGDS-WI-PD-046)
17	Finished goods checking	QC Div	Magnifier	Deep/sharrow crimping terminals deform Rusty terminals incomplete inserting stripping length conductor defects wire inserted wrongly connector defects	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025	IQC Inspector	Visual	Finished goods sampling check report (DGDS-QC-R004) dailry report (DGDS-QC-R003) work instruction	QC Div Div PIC	Finished goods check work standard (DGDS-WI-QC-016) Finished goods check work instructi (DGDS-WI-QC-005) sampling sheet (DGDS-WI-QC-001) crimping visual check inspection sta (DGDS-SB-013) incompleted insert checking standar (DGDS-SB-014)
				soldering defects twisting defects	No Abnormality	1pc/lot					
			Straight Ruler	length stripping length							
18	Out flow packing	Production planning	Electrical Scale	Quantity	No Abnormality	200pcs/bag	Flow out Inspect	Visual	Packing record (DGDS-PC-R004) incoming record work instruction	Production Plann Div PIC	Packing manual (DGDS-WI -PC-001) scale checking work instruction (DGDS-PC-R022-1)
				Quantity of carton		same as Packing List					

Q C Flow Chart

DONG GUAN DENSO ELECTRONICS CO., LTD. PAGE: 1 ／ 3

Production Div.1	Completed by	Confirmed by	⇒	Production Div	Confirmed by	Confirmed by	⇒	QC	Approved by	⇒	Document Control Center	Registered by
	電創 2012.05.29 盧彩艷	電創 2012.05.31 新 庄			電創 2012.05.31 新 庄	電創 2012.05.31 王建南			電創 2012.05.31 吴海容			電創 2012.05.31 吴 婷

Part No.	N010418	Document no.	DGDS-QCPF-5299
Established date	5/29/2012	effective date:	6/1/2012
Process Name	Assembly	part name	2P Single side crimping and one s

Revision	History	Date	Content	PIC
1.0	–	5/29/2012	New part	盧彩艷

Symbol		Symbol	
Storage	▽	Assembly	○
QC	◇	Qty check	□
Condition	⋈		

Process				Manage Item					Accountability Document		
Work Flow Chart （Plan）	Work Flow Name （Implement）	Workstation	Equipment Test Equipment Jig	Manage Item （Check）	Spec Spec Baseline	Check Freq Inspection Level	PIC	Method Limit Sample	Doc Name （Data Sheet）	Abnormality Confirm PIC	Spec Category Checking Standard Work Flow
									shipping daily report scale checking record （DGDS-PC-R023）		work instruction for shortage （DGDS-PB-004）
19	Out flow check	QC Div		Part number Quantity LOT Label	No Abnormality	Sampling (DGDS-WI-QC-001) Inspection Standard Ⅱ Normal Sampling JIS Z 9015-1 AQL0.025 same as Packing List	QC flow out Inspector	Visual	Outflow check report （DGDS-QC-R019） work instruction	QC Div Div PIC	Outflow packaging check manual （DGDS-WI-QC-006） shipping check list （DGDS-WI-QC-020） finished goods inspection work instruction （DGDS-WI-QC-016）
20	Product storage （waiting for shipment）	Production Planning Div					Flow out PIC	Visual	packing record sheet （DGDS-PC-R004）	Production Planning Div PIC	